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For Retailer, Wholesaler and Manufacturer

APRIL 2 1955

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Our friends from home and overseas will be given a cordial welcome

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bring quick profits
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SLIPPERY ELM FOOD

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Thousands of families know this wonderful food which has stood the test of years. Word of mouth recommendation alone has made it Potter & Clarke's biggest seller. Thompson's Slippery Elm Food is a nourishing, strengthening and very digestible food especially for children and invalids.

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WHOLEMEAL MALTED

So well known

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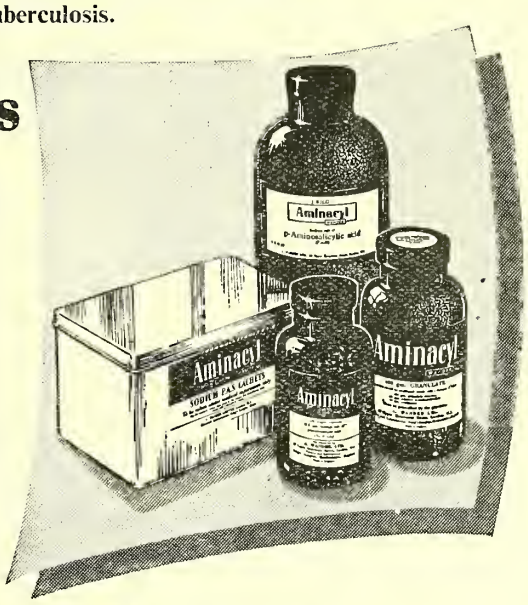
***Thompson's* SLIPPERY ELM FOOD**
is another good-selling
Potter's product

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CHEMOTHERAPY OF TUBERCULOSIS

The concurrent use of PAS salts and Isoniazid is now fully recognized as a major therapeutic measure against all forms of tuberculosis.

'Aminacyl' BRAND PAS Salts

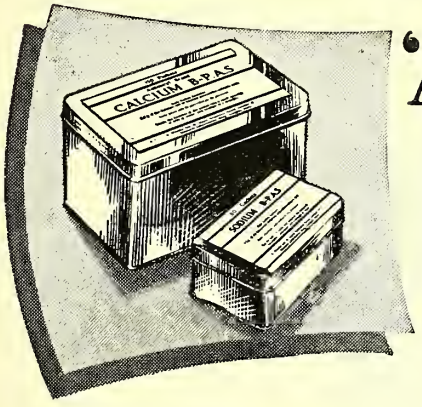


'Aminacyl' PAS products, with the exception of the Granulate (Ca PAS only), are available as either Sodium PAS B.P. or as the Calcium Salt.

They include whatever commonly used forms may be prescribed in terms of physicians' choice and patients' preference—

PACKS:

Cachets	1.5 g.	100's	500's
	2.0 g.	80's	400's
Dragées	0.5 g (plain)	250's	1,000's
	0.75 g. (enteric-coated)	250's	1,000's
Bulk Powder		1kg.	5kg.
Granulate (Ca PAS)		400 g.	2,000 g.



'Aminacyl' BRAND B-PAS *(Calcium 4-Benzoyl PAS)*

This new modification of PAS has the advantage of providing therapeutic effect comparable with that of Na and Ca PAS, but with smaller dosage. Furthermore, it is completely non-toxic, and is almost completely tasteless.

PACKS: 'Aminacyl' Ca B-PAS Powder: Tins of 150 and 500 envelopes each 3.5 g.

'Aminacyl' Ca B-PAS Cachets: Tins of 80 and 400 × 1 g.

'Aminacyl' Sodium B-PAS Cachets are also available in tins of 80 and 400 × 1.5 g.

'Pasinah' BRAND combined PAS/INAH Cachets

for convenient prescription of PAS and Isoniazid concurrently

'PASINAH' Cachets each contain 1.5 g. Na PAS (Sodium *p*-Aminosalicylate B.P.) and 17 mg. Isonicotinic Hydrazide.

PACKS: Standard Tins of 100 and 500.



'B-Pasinah' Brand of combined B-PAS and INAH Cachets of 1 g. Ca B-PAS with 25 mg. of INAH.

PACKS: Standard Tins of 100 and 500.

'Nicetal' Brand of INAH (Isonicotinic Hydrazide) Tablets of 50 mg. and 100 mg.

PACKS: Bottles of 100 and 500.

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T36

A

• THE GREATEST DEVELOPMENT IN TANKS FOR 20 YEARS



Polly-MIN

● Not since spiral tanks were first invented has such a great advance in design been made as in the new POLLY-MIN. This is a brand new developing tank designed specially for processing colour as well as monochrome films with the greatest of ease, efficiency, cleanliness and economy of solutions.

POLLY-MIN was created by the designer of the famous Johnsons and Nebro Universal and J.20 tanks. It is the result of many years of research. POLLY-MIN outdates all other spiral loading tanks.

● NO OTHER TANK HAS ALL THESE FEATURES

1 100% Polystyrene, which offers many advantages over cheaper plastics. It has a low water absorption factor, is lighter in weight yet much stronger. It is highly resistant to the chemicals used for processing.

2 Takes 120 and 127 roll films, 35 mm. (20 exposure) and No. 88 films.

3 Only 10½ ounces of solution needed for 120 size roll films and only 6½ ounces for 35 mm. films.

4 Transparent flanges enable the "second exposure" in colour processing to be made without removing the film from the spiral.

5 Spiral can be instantly adjusted for each size of film. There is a positive lock.

6 Roto-feed ensures easy loading.

7 Automatic 2-way agitation. The ribs of the spiral flanges are shaped to create turbulence, and allow a free flow of solution over the whole film. The special "jerk" cam action prevents bubble formation.

8 POLLY-MIN has a positive lock-on-lid.

9 POLLY-MIN costs no more than the popular Johnsons and Nebro 120 tanks and less than any other clear spiral tank on the market.

10 Amazingly small and light-weight, measuring approx. 4½" high x 3½" in diameter and weighing only just over 4 oz.

11 A transparent thermometer stirring rod, in which a thermometer can be inserted. A practice film and 32-page instruction book are included free of charge.

PRICE COMPLETE **25/-**

The fastest selling tank on the market

NEVILLE BROWN & CO LIMITED

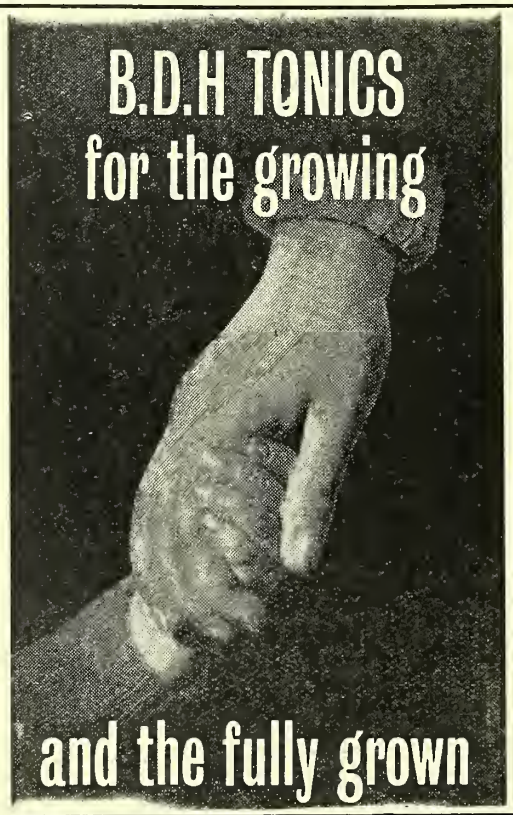
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'FERBELAN'
TRADE MARK

the children's tonic that children like

Contains iron and members of the vitamin B group

BOTTLES OF	TRADE	RETAIL
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for adults who need a general tonic

Contains extract of liver B.P.C., extract of yeast, vitamin B_1 and nicotinic acid

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B.P.C. 1954
N.F. 1955

(BOTH OFFICIAL ON 1 MAY)

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564

REGISTERED TRADE MARK

HYPAK

BRAND

POLYTHENE

Nursery Bags



Hypak Nursery Bags keep Baby's feeding utensils, clothes, toys and bed linen completely protected from all germs, dust, dirt and dampness. They're ideal too for carrying soiled nappies and clothes when travelling or visiting. Mothers have been quick to realise the advantages of this new profit-making line which is building record sales in Chemists everywhere. Retail price is 4/9 per pack.



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Other **HYPAK** Quick Selling lines.

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  6 Bag Pak—Price 2/6. 3 Bag Pak—Price 1/9.
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Name .....

Address .....

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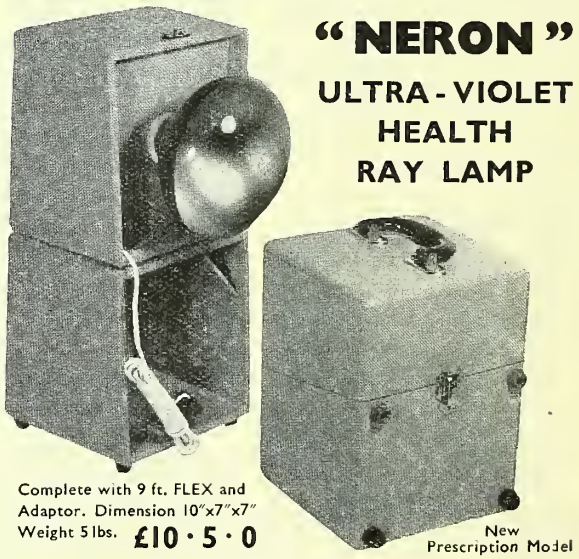
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ULTRA-VIOLET HEALTH RAY LAMP



Complete with 9 ft. FLEX and Adaptor. Dimension 10"x7"x7" Weight 5 lbs. **£10 · 5 · 0**

New Prescription Model

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AND SALTS

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Bronnley for the Bath

BY APPOINTMENT TOILET SOAP MAKERS TO THE LATE KING GEORGE VI.

BRONNLEY
FINE SOAPS AND
TOILET PREPARATIONS

Exquisitely Perfumed
Elegantly Presented
Regularly Advertised
Preferred by
Discriminating Customers





Hurry! Hurry!

Modess Masslinn

FREE OSTEND HOLIDAY CONTEST

Closes Shortly!

Six prizes—each consisting of fourteen days in lovely Ostend any time during June or September, 1955, for you and your family (or you and a friend if you are single). First class hotels. First class food. First class travel there and back. All free—plus £50 to spend while you are there.

Here's how to win. If you are a shop owner or manager, simply see that all your counter assistants enter the Contest. If one of them wins, there's an entirely separate free holiday for you too.

If you are an assistant, start to-day collecting the bands from all the packets of Modess Masslinn sanitary towels you sell. Fill in the Entry Form below, completing the sentence: "I recommend Modess Masslinn to my customers because . . ." using not more than twenty additional words. Then send it in with 50 bands. Send as many entries as you like, providing each is accompanied by 50 bands. Prizes will be awarded to the six entries judged to be the most apt, original and sincere. Prize-winning entries will be chosen by an independent panel of judges. The judges' decision shall be final and no correspondence can be entered into. Proof of posting cannot be accepted as proof of delivery. The last date for entries to reach us is 30th April, 1955.

ENTER NOW! USE THIS FORM

Fill in this coupon and attach it to your entry on a plain sheet of paper on which you should complete the sentence: "I recommend Modess Masslinn to my customers because . . . ." using not more than twenty additional words. Be sure to send 50 Modess Masslinn bands with your entry.

Name.....

Shop Address.....

.....

I have read the rules of the Contest and agree to abide by them.

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COX

for counter sales that keep custom

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Manufacturing Chemists since 1839
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QUESTIONS
(theirs)

AND

ANSWERS
(yours)

Q: What's this marvellous new auburn hair colouring I've heard about?

A: *It's called Camilatone Synthetic Henna Cream.*

Q: Why is it such a success?

A: *This synthesized Henna Cream gives a far more natural tone . . . is kinder to your hair and, most important—so much easier to use. Just rub it into your hair after a shampoo and then rinse.*

Q: How will I know how long to leave it?

A: *There is a time chart enclosed with each tube to show you how to get the exact depth of colour you want. The less time you leave it before rinsing—the lighter the effect.*

Q: Do I have to use it each time I wash my hair?

A: *No. The effect lasts through many shampoos.*

Q: Will it affect my permanent wave?

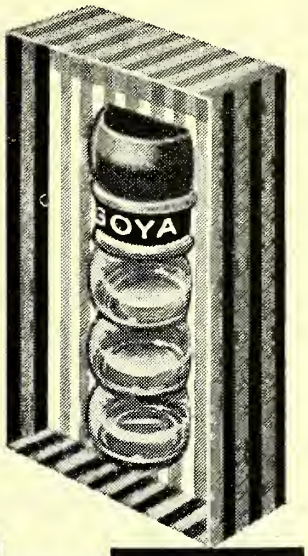
A: *Not at all. Besides it has a wonderful conditioning effect on the hair.*

3/6 A TUBE
Trade Price 18/8 a dozen plus 75% P.T.
Display outer and showcard supplied

CAMILATONE
SYNTHETIC
HENNA CREAM

CAMILATONE LTD., EDGWARE ROAD, LONDON, N.W.9

Goya's new perfume



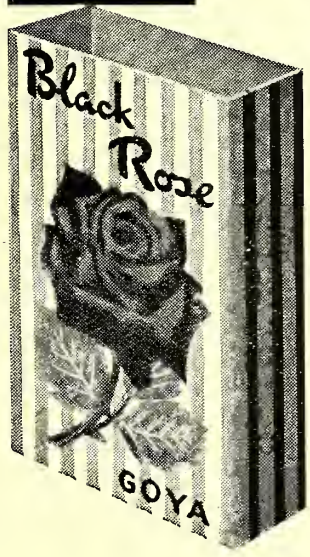
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Daring as it's haunting, accompanied by a full range of perfumed accessories, Black Rose — created for women in love — is this year's biggest perfume.

Black Rose





Display it NOW!

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Goya

PARIS · LONDON · NEW YORK

B

EFFECTIVE
DELICATE
LASTING

Velpuff

THE NEW
CREAM POWDER
COMPACT



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SALES UP!

RETAIL
3/6 EACH
WHOLESALE
18/8 PER DOZ.

3 SHADES
FASCINATION
(Natural)
ENCHANTMENT
(Pachel)
MYSTIC TOUCH
(Peach)

DIXOR LTD.
ST. LEONARD'S RD., MORTLAKE,
LONDON, S.W.14

How do they ask for a vacuum flask?



By Appointment to the late King George VI

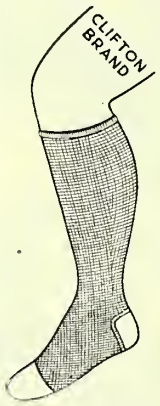
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REGISTERED TRADE MARK

every time!

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Rexall

JUNIOR Plenamins

MULTI-VITAMIN CAPSULES

will bring you MORE profit in 1955!

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You can depend on any product bearing the name Rexall

Retail price **4/3** *per packet*

JUNIOR Plenamins
THE FAMOUS REXALL PLENAMINS NOW FORMULATED FOR CHILDREN

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BONUS OFFER



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3 DOZ TINS OF 2/3 NIVEA
WITH EVERY £7-10-0 ORDER
FOR NIVEA CREME—*In any combination of sizes!*

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In addition—quantity discounts:

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7½% when the order reaches **£15**

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Order your supplies now!

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FREE SAMPLE
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Gill's DANDRUFF Remover Shampoo

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County Laboratories Ltd, have pleasure in announcing that as from 1st April 1955 they will sell to the Trade combined parcels of all County products including

BRYLCREEM • HILTONE

SILVIKRIN • AMAMI

★ BRISTOW'S • COUNTESS

★ *Now sold through County Laboratories Ltd*

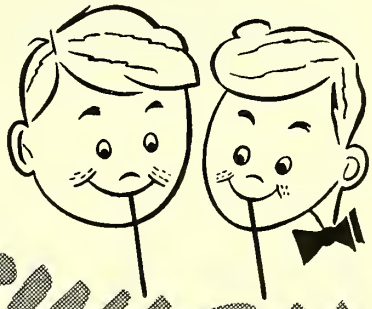
Parcel Values

BEST DISPLAY TERMS	**£15**
INTERMEDIATE DISPLAY TERMS	**£10**
MINIMUM DISPLAY TERMS	**£5**
STANDARD TERMS	*under* **£5**

COUNTY LABORATORIES LTD · HONEYPOT LANE · STANMORE · MIDDLESEX

TELEPHONE: WORDSWORTH 4321

W.1



It's made with a SWISH-
and it SELLS with a SWING!



★ NOW for the first time a full range of Quick-mix drinks in *all* the popular flavours! ORANGE, LEMON, LIME, PINEAPPLE and RASP-BERRY—at only 1/- a tin.

★ Sparkling foil labels in a gay range of colours make *Robinade* a natural for display and quick sales. All initial deliveries come in a colourful eye catching container.

★ Special area selling tests have already proved the popularity of *Robinade*.

★ National Press and Magazine advertising, supported by colour films in 850 cinemas all over the country, will create a demand everywhere.

Place your orders for quickly-made, quickly-sold Robinade NOW!



ROBINSON'S QUICK-MIX **ROBINADE**

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★ Odourless!

★ Actually catches and kills moths!

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★ *also available: 20 oz. size 5/-*

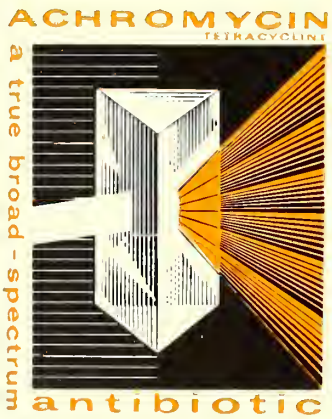
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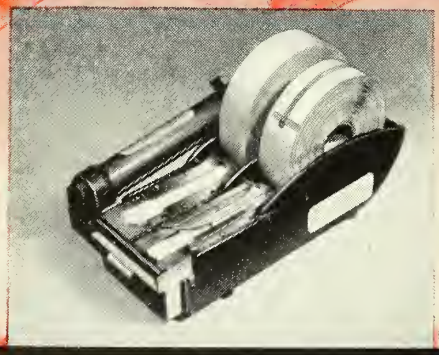
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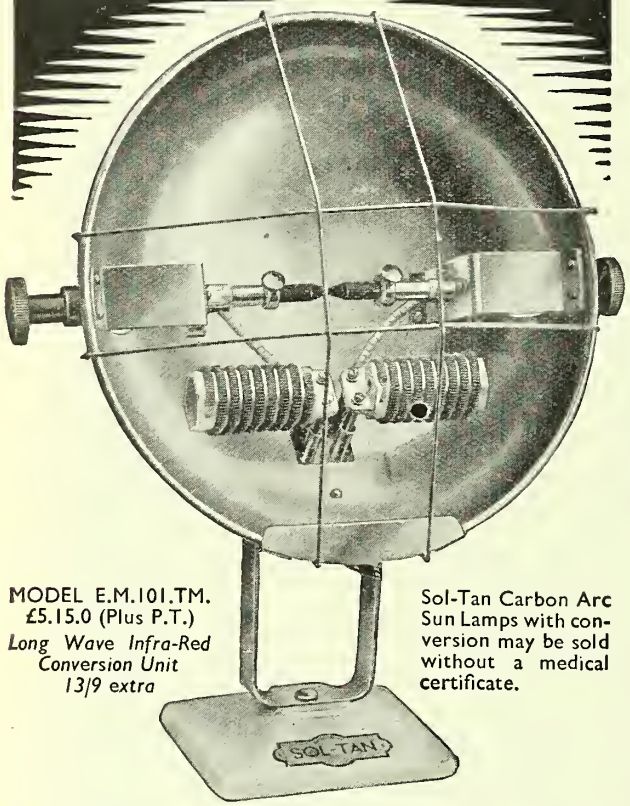
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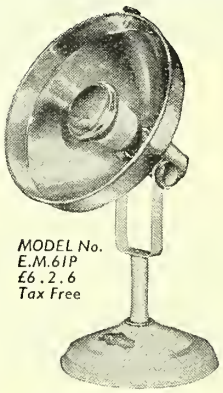


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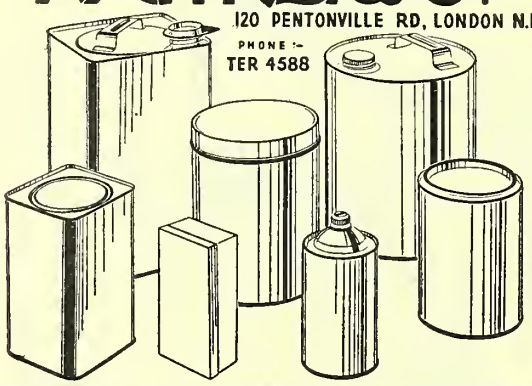
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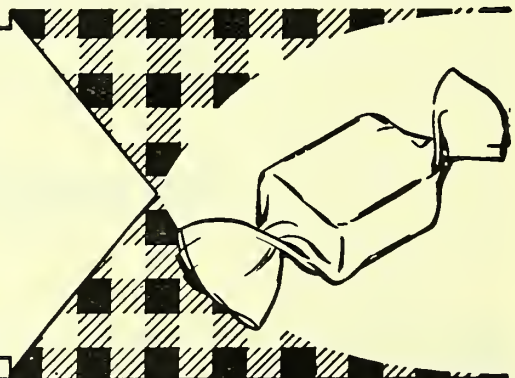
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A RICH NATURAL SOURCE OF
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TWO SIZES **1/9 or 3/-**
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HERE'S A SWEET PROFIT!

These are our new sweets — and how they're selling! Butterscotch flavoured, they contain glucose for quick energy, malt extract to keep you going, and they're packed in ¼ lb film bags (no weighing up) with the familiar tartan pattern

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17 & 24

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Buy now to meet increasing demand
Prominent display will assist your sales

All Enquiries to BEECHAM PHARMACEUTICALS LTD, St. Helens, Lancs

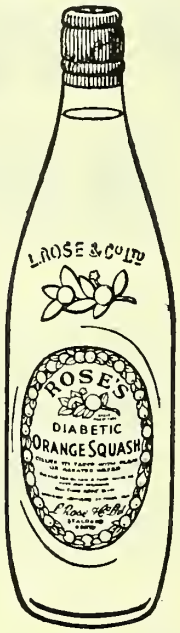
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more
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for
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Put the new Ilford display material in your windows to profit by the eve-of-the-holiday half-page advertisement appearing in the *Daily Express* on April 5—and sell more Ilford films this Easter than ever before!

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OR FOR OUR REPRESENTATIVE TO CALL

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Grams: SPONGE, NORWEST, LONDON

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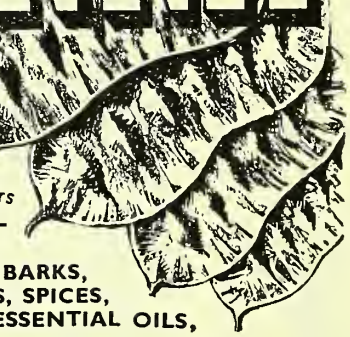
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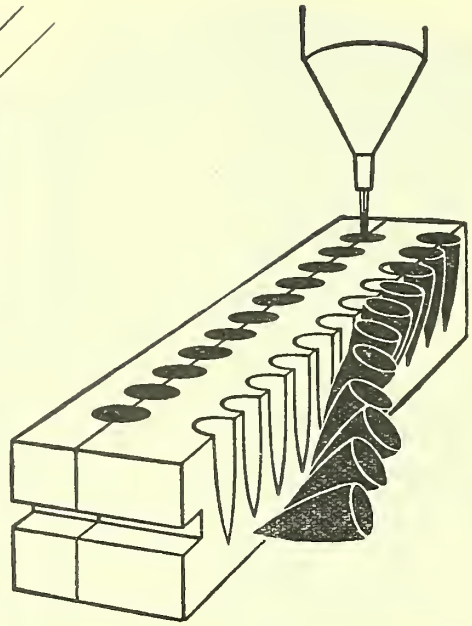
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APRIL 17th TO APRIL 30th



WITH A SPECIALLY DESIGNED SELL-OUT BOX FOR *YOUR* COUNTER CONTAINING

KIT-E-KAT AND **MEET**

The Household Name for Cat Food.

4½ DOZ. TINS

the newest, biggest Sales Success—Solid Meat in Chunks.

1½ DOZ. TINS

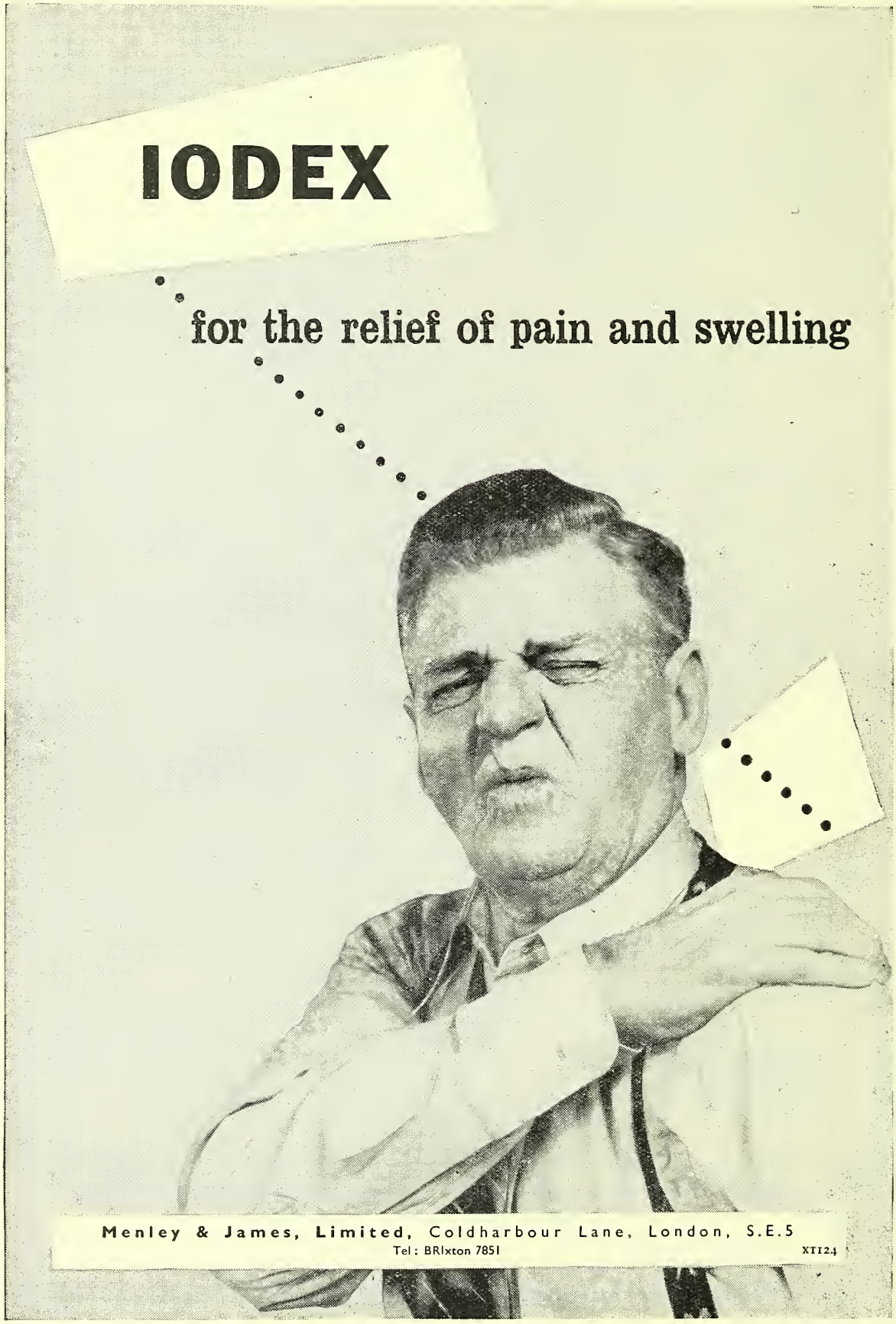
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If in difficulty write to Sales Director, Chappie Ltd., Melton Mowbray, Leicestershire.

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- **ORDER YOUR SPECIAL SUPPLY FROM YOUR SUPPLIER NOW!**

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For thermal, sound and vibration Insulation and protection.

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THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 163 April 2, 1955 No. 3919

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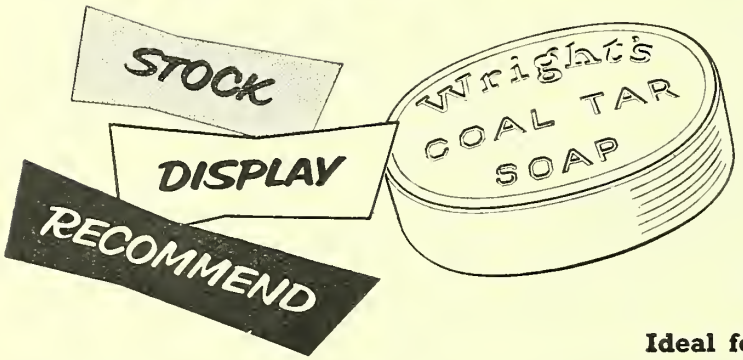
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4/5

The CHEMIST AND DRUGGIST

Volume 163 APRIL 2, 1955 No. 3919

Pharmaceutical Services Costs

ESTIMATES LOWER ONLY FOR WALES

THE Civil Estimates for the year ending March 31, 1956, published recently, show that the pharmaceutical services under the National Health Service in England are expected to cost £144,000 more in 1955–56 than the 1954–55 estimate. In Wales the estimate shows a corresponding decrease of £120,000, and in Scotland an increase of £30,000. The figures for the three countries are summarised in the table below:—

ANALYSIS OF PHARMACEUTICAL SERVICES COSTS

ITEM	ENGLAND		WALES		SCOTLAND	
	Estimate 1955-56 £'000s	Difference from 1954-55 £'000s	Estimate 1955-56 £'000s	Difference from 1954-55 £'000s	Estimate 1955-56 £'000s	Difference from 1954-55 £'000s
(a) Pharmacists						
(i) Dispensing fees and rota payments ...	10,811	9 less	844	15 more	1,562	25 less
(ii) Cost of ingredients and containers allowance ...	26,373	503 more	2,061	74 less	3,504	34 more
(iii) Allowance for overheads and profit	6,327	107 more	495	18 less	832·5	9·5 more
(b) Medical and dental practitioners ...	1,651	11 more	129	1 more	120	no change
(c) Health Centre services	—	—	—	—	4·5	0·5 more
Payments by patients ...	6,026	468 more	447	44 more	743	11 less
Total	39,136	144 more	3,082	120 less	5,280	30 more

The general medical services will cost £51,380,000 in England (an increase of £1,964,000); £3,502,000 in Wales (an increase of £111,000); and £6,920,000 in Scotland (an increase of £237,000). The estimate for the National Health Service as a whole in England and Wales shows an increase of £22 millions to £411,086,215, and for Scotland an increase of £2 millions to £52,284,040.

Pharmaceutical Society

FINAL REPORT ON RESOLUTIONS

THE Council of the Pharmaceutical Society recently issued its final report on the resolutions passed at the Branch Representatives' meeting held in May 1954 (see *C. & D.*, May 29, 1954, p. 544; and November 20, 1954, p. 508). The report states that on the questions of period of apprenticeship, conferment of fellowship, and examination of university graduates, the special subcommittee of the Education Committee established in December 1954 to consider the Society's education policy is dealing with those matters as quickly as possible. Regarding the resolution that to keep open a pharmacy in excess of normal hours is unethical conduct, the reports of a subcommittee of the Ethical Committee, which was appointed in July 1954 to deal with the matter and with the question of signs exhibited on pharmacies, are now before the Committee.

National Formulary

AMENDMENTS TO 1955 EDITION

THE following amendments to the National Formulary, 1955, have been notified by the Joint Formulary Committee:—

SODIUM CARBONATE: Page 15, line 24. *For* sodium carbonate *read* exsiccated sodium carbonate.

CHLORAMPHENICOL: Page 27, lines 14–19. Amend to: The usual dose for adults is 2–3 gm. daily, in divided doses at six-hourly intervals. Children should receive 50 to 75 mgm. per kilo of body weight, daily, in divided doses. The total dose for adults should not exceed 26 gm.; for children it should not exceed 100 mgm. per kilo (2·2 lb.) of body weight for seven days.

MIST. ALUMIN. HYDROX. Page 107, lines 24–26. Amend to: When mist. alumin. hydrox. et bellad. is prescribed, mist. alumin. hydrox. containing tincture of belladonna, 7½ min. in each dose shall be dispensed. Dose: One teaspoonful, suitably diluted.

Industrial Health

ADVISORY COMMITTEE'S FIRST MEETING

THE first meeting of the Industrial Health Advisory Committee, appointed by the Minister of Labour and National Service took place on March 18. The Committee is advising the Minister on further development of industrial health in work places covered by the Factories Acts. MR. HAROLD WATKINSON (Parliamentary Secretary, Ministry of Labour), who took the chair in the absence of the Minister, stressed the broad scope of industrial health services in factories. They covered the provision of a good working environment to promote health, cleanliness, good sanitation, lighting, heating, ventilation and atmosphere. They included protection against occupational diseases and poisoning and adequate first-aid treatment of injury or sickness. This conception called for team work between many interests—industry, the medical and nursing professions, the Universities, the scientist and the engineer, and for co-ordination with the other statutory health services. He outlined the practical tasks before the Committee which



BUT WHERE ARE THE ROMEOS? Smiling beauties at the annual dance of T. & H. Smith, Ltd., Edinburgh, recently.

included the determination of priorities for action in the field of industrial hazard, amongst which were dust and fumes, dermatitis and radioactivity. The Committee decided to tackle, at its next meeting, the problem of priorities in the field of industrial health. The Committee noted with satisfaction a report that the Order of St. John, the British Red Cross Society and the St. Andrew Ambulance Association, had decided to institute advanced courses of training for first-aid in industry and a certificate that would be recognised nationally.

The industrial museum, 97 Horseferry Road, London, S.W.1, was formally renamed by Sir Walter Monckton (Minister of Labour and National Service) on March 22. Now known as the Industrial Health and Safety Centre, it is a permanent exhibition of methods, arrangements and appliances for promoting safety, health and welfare in industry, and holds a unique collection of exhibits, many of which are lent by manufacturers and can be demonstrated in use. The three floors of the centre contain sections covering the whole field of industrial health and safety. In the health section charts and models show the incidence and variety of the main industrial diseases. The results of oil acne, cancer and electrical accidents are demonstrated. Respiratory diseases are shown by a series of *x*-ray films and lung models. There is a display of breathing apparatus, resuscitating appliances and types of masks useful against dusts. First-aid boxes and equipment are shown and a model of a factory first-aid centre. The centre is open from 10 a.m. to 4 p.m. daily (Saturdays 10 a.m. to 12 noon). Admission is free.

Imported Medicine

ADDITIONAL STATISTICS PUBLISHED

ADDITIONAL details to those given in the usual monthly returns of the United Kingdom chemical import trade for 1953 have just been published in the second volume of the *Annual Statement of the Trade of the United Kingdom with Commonwealth Countries and Foreign Countries* (H.M. Stationery Office, £3 5s.). The United States and France were the chief suppliers of proprietary medicine imports, the values being £88,309 and £82,597 respectively; Holland with £70,365 was the third largest supplier. Of the £1,124,900 worth of vitamins imported, £815,755 came from Switzerland, £53,873 from Australia and £96,573 from France. Insulin from Denmark cost £31,854. Imported quinine and quinine salts came principally from Holland and was valued at £76,151 out of a total of £89,347. West Germany (£109,038) and Switzerland (£64,510) supplied most of the other alkaloids.

Glass Containers

BRITISH STANDARDS PACKAGING CODE

THE British Standards Institution has published a glass container section (section 18) of its Packaging Code (B.S. 1133) to give guidance on the types of container suitable for different purposes and products, and for use with different types of filling and handling plant, as well as the various types of closure available. The new section, which completes the Code, gives information about containers and their production and includes illustrations of many types of containers and closures of metal, plastics, rubber or cork. A valuable feature is the inclusion of several pages of definitions applicable to containers and closures. Copies may be obtained from British Standards Institution, 2 Park Street, London, W.1, price 6s.

Tuberculosis Conference

EXHIBITION AND LECTURES

THE National Association for the Prevention of Tuberculosis is holding its fourth Commonwealth Health and Tuberculosis Conference at the Royal Festival Hall, London, June 21–25. A special feature of the 1955 Conference will be an exhibition, which, in addition to its scientific side, will include an extensive trade section covering *x*-ray apparatus, microscopes and surgical instruments, drugs, medical books, etc. Lectures on all aspects of tuberculosis by foremost authorities are being given during the first three days, the last two days being devoted to practical demonstrations and visits to sanatoria, hospitals and clinics. Evening receptions, other social functions and tours of general interest are also to be a part of the programme. Further details are obtainable from the secretary-general, N.A.P.T., Tavistock House North, Tavistock Square, London, W.C.1.

Birmingham Analyst

REPORT FOR FOURTH QUARTER OF 1954

THE report of the Birmingham analyst for the fourth quarter of 1954 states that of a total of ninety-eight drugs sampled, eight were incorrect. A tin of proprietary health salts should have, according to the label, contained 48·3 per cent. sodium bicarbonate and 44·75 per cent. tartaric acid. On analysis it was found that, owing to decomposition, only half those quantities were present. The makers stated that because of the granulation process used in the making of the salts it was difficult to assess the true chemical composition of the final product. The Pharmaceutical Society had agreed that the words "prepared (or manufactured) from," should be inserted before the statement of the ingredients in the formula on the label. The analyst comments that though that seems unsatisfactory because it allows of a wide variation of composition, under the Pharmacy and Medicines Act, 1941, it appears to be legally correct. A sample of sal volatile was deficient in free ammonia to the extent of well over 20 per cent. Screw-capped vials in which the sal volatile was packed are blamed for the ammonia escaping and the packers are replacing them with glass-stoppered bottles.

Drug Supply Authority

A RESTORATION CANCELLED

THE Home Secretary has again withdrawn from Mr. Ian Fleming Macleod, M.B., Ch.B., 19 Snowdon Place, Stirling, authority to be in possession of or supply Dangerous Drugs. It was withdrawn from him in March 1943, but the withdrawal order was suspended in March 1944 (see *C. & D.*, March 25, 1944, p. 323).

Exports to Turkey

BOARD OF TRADE SEEK INFORMATION

THE Board of Trade invite United Kingdom exporters or merchants to supply by April 18, details in respect of each shipment of goods imported into Turkey for which sterling payment has been outstanding since before July 1, 1953.

SCOTTISH NEWS

Intake of Vitamins

TOO MUCH BY THE WELL-FED

THE wholesale consumption of synthetic vitamin concentrates in Great Britain by perfectly well-nourished people had reached absurd proportions, said PROFESSOR D. M. DUNLOP (department of therapeutics and clinical medicine, Edinburgh University) in Edinburgh recently. Professor Dunlop was delivering a public lecture on "Changing Fashions in Treatment." He said that there were those who said that the public demanded a good bottle of medicine, and that it had a great psychological effect. But the public demanded all sorts of mumbo-jumbo which also had a great psychological effect. Doctors should attempt to educate the public in rational therapeutics instead of pandering to their primitive desires.

Describing the advances in the medical field throughout the ages, Professor Dunlop said that the importance of vitamins in human physiology and nutrition and their value in the prevention of deficiency disease was now well recognised—perhaps over-recognised.

Dangerous Drugs

DUPLICATES OF STOCK ORDERS

DOCTORS in Scotland ordering stocks of Dangerous Drugs on forms EC10A or EC10, must now supply the chemist with a duplicate copy of the order (a carbon copy is satisfactory) unless they call and sign the register, so that a duplicate may be available for inspection if the original order has been sent for pricing. Doctors are being asked to mark the copy "D.D.A. duplicate." The arrangement does not apply to prescriptions on EC10's for individual patients.

Sighthill Health Centre

GROWTH OF DISPENSING SERVICE

A REPORT submitted to Edinburgh Executive Council on March 24 shows that the number of prescriptions dispensed at the Sighthill Health Centre has increased considerably. Whereas in February 1954, 1,019 prescriptions were dispensed, in February 1955 the number had risen to 1,827, of which 40 per cent. were accounted for between 5.30 and 8 p.m. In November and December 1054 and January 1955 the numbers of prescriptions dispensed were 1,813, 1,775 and 1,755 respectively.

IRISH NEWS

Athletic Club

SWEEPSTAKE PRIZE-WINNERS

THE first prize of £30 in the Grand National draw, run by the College of Pharmacy Gaelic Athletic Association Club, was won by Mr. L. O'Bevine, Dublin. Second prize of £20 was won by Mr. F. J. Flanagan, Dublin, and third prize of £10 by Mr. I. Travers, Dublin.

A Staff Vacancy

IRISH SOCIETY ADVERTISES NEW POST

THE Pharmaceutical Society of Ireland is advertising for the services of a pharmaceutical chemist who must be prepared, if required, to discharge the duties of an inspector. Applications should reach the registrar, 18 Shrewsbury Road, Dublin, not later than April 8.

Athlone Chemists

ASSOCIATION FORMED

FOLLOWING a meeting of chemists in the Athlone area, held recently, to consider the proposals for a new Pharmacy Bill, it was decided to form an Athlone Chemists' Association. Mr. Henry A. Naylor, M.P.S.I., was elected chairman, and Mr. Seamus E. Fox, M.P.S.I., 9 Church Street, secretary.

NEWS IN BRIEF

MR. F. W. SIDWELL has been appointed a joint secretary of the Food Standards Committee in place of Mrs. J. J. Tait.

MR. PHILIP CARR (chairman, Peek, Frean & Co., Ltd.) is president of the Royal Commercial Travellers' Schools' maintenance appeal for 1955.

MEMBERS of the Plymouth Branch of the Pharmaceutical Society visited the School of Pharmacy, Plymouth Technical College on March 21, when a tour of inspection was made.

LIVERPOOL contractors under the National Health Service have decided against extending the hours of service from 6 to 7 p.m., but have agreed that the rota periods should be extended in certain districts.

MR. Duncan Sandys (Minister of Housing and Local Government) recently met a deputation representing the principal retail organisations and discussed questions arising out of rating revaluation.

RECENTLY issued Board of Trade figures show that sales of chemists' goods in large establishments were 9 per cent. higher in January 1955 than in January 1954, and 45 per cent. lower than in December 1954. Comparable figures for independent retailers were 8 per cent. higher and 24 per cent. lower respectively.

THE National Insurance and Industrial Injuries (Luxembourg) Order, 1955, which comes into operation on April 1 and is published as Statutory Instrument, 1955, No. 420, provides for reciprocity between the United Kingdom and Luxembourg in relation to the National Insurance Acts, 1946–54, and the National Insurance (Industrial Injuries) Acts, 1946–54.

TOPICAL REFLECTIONS

By Xrayser

Sir Robert Christison

The article entitled "Pharmacology by Ordeal" (p. 348) recalls a remarkable personality who strode through the nineteenth century like a Colossus. Sir Robert Christison made his mark in Edinburgh at a time when there were many giants in the field, and only the outstanding could hope to be noticed. He was born towards the close of the eighteenth century, and was a student at the University at the early age of fourteen, completing courses in literature and medicine by the time he was twenty-two. Only three years later he became professor in medical jurisprudence, going to the chair of materia medica ten years later. He retired in 1877, so that in all he had been an active professor for over fifty years. Sir Robert was contemporary with Syme, the famous surgeon, Simpson of chloroform fame, and many other notable figures, and the Pharmaceutical Society was fortunate in securing such an outstanding figure to give the inaugural address at one of its series of evening meetings in Edinburgh. But to know something of the less public side of this brilliant man, it is necessary to dip into Dr. John Brown, who, on his return from Christison's funeral, wrote a fine essay bearing the title of this paragraph. There, in *Horae Subsecivæ*, in that fine style which makes the author so readable, is a splendid tribute to his character. Sir Robert was unlike many medical men—he wrote an exquisitely neat hand.

Paddy's Milestone

There is a landmark known to all who sail between Glasgow and Ireland—an enormous piece of basaltic rock, in the Firth of Clyde, called Ailsa Craig. It rises to a height of over 1,100 ft. straight out of the sea, and though it looks inhospitable, it is a cheering sight to the returning emigrant. This week it has come into the news through the medium of the National Health Service. It appears that a resident of Ailsa Craig, who is a patient of a doctor on the Ayrshire Executive Council's list, twice required urgent treatment in April 1954, and the problem arose whether the invalid should go to the mainland, or the doctor to the rock, some ten miles away. The lifeboat took over, and in that manner the patient was transported to the shore. But the two double journeys resulted in a claim of £16 for the hire of the lifeboat. There followed governmental correspondence on the question of who was to meet the account, the Executive Council refusing to accept the bill. The Department of Health, possibly apprehensive of precedent, pointed out that they could not hold themselves responsible for the amount, since, though they do pay the cost of an ambulance service to hospital, they do not provide transport to a general practitioner. With an implied doubt as to the outcome, the Department suggested that the patient should be asked to find the money. In this they found a curious parallel to the case of Burns' "Duncan Gray," with the Department in the rôle of suitor:

> "Duncan fleech'd and Duncan pray'd
> Ha, ha, the wooin' o't,
> Meg was deaf as Ailsa Craig,
> Ha, ha, the wooin' o't."

With commendable restraint, the patient emulated Meg, and the money is now to be a first charge on the county mileage fund.

Tetracycline

The news that tetracycline is to be available in general practice from April 4 will be received with mixed feelings by contractors as a whole. The antibiotics are wonderful weapons in the fight against disease, but their name is now legion, and it becomes increasingly difficult to keep stocks of the full range of these products in all their varied forms. Yet they must be available when required—at short notice, for a condition calling for their administration is not one that brooks delay. The continued adding to the value of existing stocks, and the rapidity with which such products are superseded, are matters which no doubt our negotiators will have in mind in discussing terms of service.

LOCAL DINNERS AND DANCES

SOUTH LONDON AND SURREY

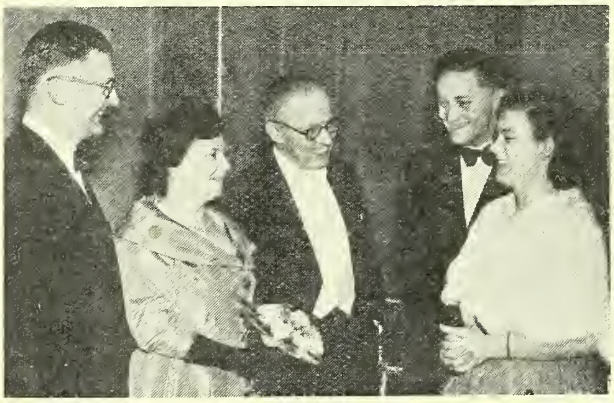
Golfers' Supper

THIRTY-EIGHT members of the South London and Surrey Pharmacists' Golfing Society were present at the Society's first supper and social evening held at Shirley Park golf club recently. Mr. R. Swindells presided. Thanks for gifts of trophies to the Society were offered to Messrs. J. N. Whitelaw, J. Widdocks, J. L. Goulder (Ucal, Ltd.) and J. Owen (Continental Laboratories, Ltd.).

LEICESTER

Guests Classified

THE chief guest at the annual reunion dinner and dance of the School of Pharmacy, Leicester College of Technology, held on March 4, was Mr. A. G. Fishburn (director of research, Imperial Chemical (Pharmaceuticals), Ltd., and chairman of the Pharmaceutical Society's Films Committee). Proposing the toast to the guests, MR. J. I. HARRIS "classified" them botanically, describing Mr. Fishburn, whose first appearance at the reunion it was, as therefore an annual. Alderman C. R. King (former lord mayor of Leicester) and Mrs. King were, on the other hand, hardy perennials! Responding, MR. FISHBURN said that his *habitat* had been chiefly Manchester and London and it was his first visit to Leicester. Although he had known the chairman (Mr. Gunn, head of the school of pharmacy) for a long time, he was seeing him on his home ground for the first time. He paid tribute to the "remarkably high" standard of laboratory work maintained by the school. He would like to know how the student was "coaxed, cajoled or brow-beaten" to such a standard. MR. FAIRBAIRN said that the compounding of medicine was now on a more scientific footing and had given rise to the new career of the research pharmacist, a post that had not existed twenty or thirty years ago. His advice to students was: (1) For a career as a pharmacist in the industry, a good background should be obtained by a year or so in a large hospital to get to know about synthetic and antibiotic drugs; (2) for an industrial career as an expert in the subjects of pharmacology, bacteriology, etc., the maximum study in biology and chemistry should be done at college where the essential training might not be thorough enough.



LEICESTER SCHOOL OF PHARMACY REUNION: Left to right, Mr. A. G. Fishburn, Mrs. C. Gunn, Mr. C. Gunn, Mr. C. H. R. Palmer (a third year B.Pharm. student), and Miss C. Hendry.

SOUTHPORT

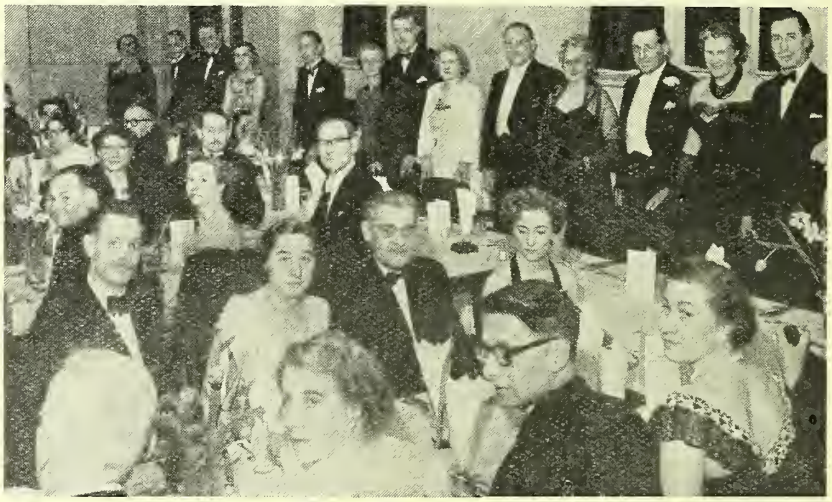
Proceeds to Benevolent Fund

A DINNER and dance was recently held by the Southport Branch of the Pharmaceutical Society in aid of the Society's Benevolent Fund. There were nearly 200 guests including the mayor of Southport. A toast to the Pharmaceutical Society was proposed by MR. J. SHACKLETON (chairman of the Branch) and MR. T. HESELTINE (immediate past president of the Society) responded. The toast to the guests was proposed by MR. G. V. COLLEDGE (treasurer of the Branch) and the mayor responded.

EXETER

Academicians as Principal Guests

PRINCIPAL guests at the annual dinner and dance of the Exeter Branch of the Pharmaceutical Society on March 16 were Mr. W. Cooper (head of the School of Pharmacy, College of Technology, Bristol) and Dr. J. W. Cook (principal, University College of the South West). Proposing the toast "The Pharmaceutical Society," DR. COOK said that the profession of pharmacy had a very close affinity with his own former one, chemistry. Both professions could be said to be offshoots of medicine but pharmacy more so than chemistry. The apothecaries were the forerunners of the pharmacist and the alchemists of the chemist. Dr. Cook mentioned that he had been an honorary examiner of the Pharmaceutical Society when regius professor of chemistry at Glasgow University, and had given the Charter Lecture at the School of Pharmacy, University of London. Dr. Cook mentioned Nicholas Culpeper's *Complete Herbal* which had recently been reissued in a new edition, and said that although a great variety of herbs was mentioned the number of diseases and disorders for which they were prescribed was quite small. That was very different from the practice of pharmacy today. MR. W. COOPER, replying to the toast, gave an account of the duties and responsibilities of the Society, mentioning especially the efficient and tactful way the Society's inspectors carried out their duties. He said that some might think that in a welfare state benevolence was no longer so urgently required, but that was not so. The Society's Benevolent Fund Committee dealt with over 250 applications a year. If every pharmacist on the register gave £1 per year the Committee would have few further worries about finance. He appealed to members to vote in the forthcoming Council elections. MR. W. H. JAMES (chairman of the Branch) welcomed visitors from North Devon, Cornwall, Plymouth and Torquay, and especially Mr. R. H. Trickey, London, treasurer of the Branch, 1947–54.



MANSFIELD BRANCH DINNER: Members of the Mansfield Branch of the Pharmaceutical Society at their annual dinner on March 16. Standing, top table, are (left to right) Miss M. A. Kingscott, Messrs. K. L. King (treasurer of the Branch), R. W. Sarsby, Mrs. Sarsby, Mr. C. H. Preston Robinson (secretary of the Branch), Alderman Mrs. F. G. Stuart (chairman, health committee, Nottinghamshire county council), Mr. L. Webber (chairman of the Branch), Mrs. Webber, Dr. J. S. Drummond (medical officer of health, Mansfield), Mrs. Drummond, Mr. C. P. C. Vallance, Mrs. Vallance, and Mr. A. I. Otter (vice-chairman of the Branch). Seated head of centre table is Mr. P. D. J. Spaanderman (president, Chemists Federation).

"C&D" artist at

EXETER

BRANCH



EXETER WAS CHRISTIAN WHEN THE SURROUNDING VILLAGES WERE STILL PAGAN!

ANNUAL DINNER AND DANCE

16th MARCH 1955



DR. J.W. COOK, F.R.S. ed.
PRINCIPAL, UNIVERSITY COLLEGE OF SOUTH WEST.
"WELL KNOWN ON BOTH SIDES OF THE ATLANTIC"



W.H. JAMES
BRANCH CHAIRMAN



W. COOPER
PRINCIPAL, SCHOOL OF PHARMACY, BRISTOL
MEMBER OF COUNCIL PHARMACEUTICAL SOCIETY
RELATED A STUDENT'S DREAM OF SEEING HIM AS MOSES!







W. J. EDWARDS, R.A.F.V.R
CHAIRMAN, SOCIAL COMMITTEE

R.H. TRICKEY
RECEIVES A PRESENT FOR HIS FINE SERVICE AS A FORMER TREASURER OF THE BRANCH

TEA FOR TWO!

J.H. WARD
BRANCH HON. SECRETARY, WHOSE HOBBY IS WORK DOES A LITTLE TRAINING —



ANGLER
R.C. CRISP
HON. TREASURER



R.F. MITCHELL
HON. SECRETARY SOCIAL COMMITTEE



MRS. M.B. MEREDITH
B.Sc., F.P.S.
DEPUTY CHIEF PHARMACIST ROYAL DEVON & EXETER HOSPITAL



JARVIS GRAVES PAST CHAIRMAN C.C.
A WELL-KNOWN DEVON FIGURE

COMPANY NEWS

Previous year's figures in parentheses

PFIZER, LTD.—Messrs. Richard C. Fenton and John A. Rodgers have been appointed directors.

VITAMINS, LTD.—Miss E. K. Jenkins (secretary of the Vitamins Group of Companies) has been appointed to the board.

BEECHAMS PHARMACEUTICALS, LTD., is the new title adopted by Beecham (Northern), Ltd., and effective from April 1.

MANCHESTER OIL REFINERY (HOLDINGS), LTD. — A final dividend of 8½ per cent., making 12½ per cent. for 1954 (against 6 per cent.), is recommended. Group profit is £174,000 (£51,000). Tax is £55,000 (£26,000).

COW & GATE, LTD.—Group profit for year ended September 30, 1954, was £953,618 (£1,061,590). Net profit applicable to parent company was £384,163 (£474,902). A dividend of 15 per cent. is proposed (against 17½ per cent. on smaller capital).

ALBRIGHT & WILSON, LTD.—A second interim dividend of 15½ per cent., making 22½ per cent. for 1954, is recommended (against 17½ per cent.). Group net profit is £884,487 (£746,230), after charging £991,802 (£1,039,838) for taxation and £1,275,973 (£669,980) for depreciation.

BENGUE & CO., LTD.—The directors of the company and of Polypharma Laboratories, Ltd., have decided to end the activities of Polypharma Laboratories, Ltd., as a separate company. From April 1, Messrs. Bengué will manufacture and distribute all pharmaceutical proprietaries previously supplied by Polypharma Laboratories, Ltd.

PETROCHEMICALS, LTD. — Following the acquisition of the company by Shell Chemicals, Ltd., the directors appointed by the Finance Corporation for Industry, Ltd. (Mr. Godfrey H. Owtram, Mr. E. J. Barnsley, Sir John Bradley and Sir Robert Robinson) have resigned from the board, as has also Mr. P. C. Chaumeton. Shell Chemicals, Ltd., have appointed their own board of directors from within the Shell organisation.

BOOTS PURE DRUG CO., LTD.—The company announce that Mr. E. R. Walker (vice-chairman) and Mr. B. A. Bull, F.P.S., A.R.I.C., have resigned from the board, having reached retiring age. Dr. G. I. Hobday, B.Sc., Ph.D., has been appointed director of research and elected to the board. Mr. S. Harker-Smith, who is already a director, has been appointed a director of merchandising. Mr. C. L. Saul (wholesale and export director), Mr. D. S. Henderson, M.P.S. (London director), and Mr. E. Parrott (head buyer), have reached retiring age and have resigned their directorships of Boots subsidiary companies. Mr. R. Hacking has been appointed merchandise controller and becomes a director of Boots Cash Chemists (Lancs), Ltd. Mr. W. K. Oliver, M.P.S., has been appointed sales manager and a director of Boots Cash Chemists (Western), Ltd. Mr. J. W. Seekings, M.P.S., will have charge of the wholesale and export department and has been appointed a director of Boots Cash Chemists (Western), Ltd. Mr. K. D. Williamson has been appointed head buyer and a director of Boots Cash Chemists (Western), Ltd.

New Companies

P.C. = Private Company; R.O. = Registered Office.

GEORGE J. COOMBES, LTD. (P.C.).—Capital £4,000. To acquire the business of chemists carried on at High Street, Gt. Missenden, as G. J. Coombes. Directors: Harry R. Thurgar, M.P.S., and Marion L. Thurgar. R.O.: 48 Broadway, London, S.W.1.

T. B. ROBINSON (CHEMISTS), LTD. (P.C.).—Capital £1,000. To carry on the business of wholesale and retail chemists and druggists, etc. Directors: Elsie S. Robinson, Aileen E. B. Robinson, M.P.S., Beryl J. B. Robinson and Thomas B. Robinson. R.O.: 278 Church Lane, Kingsbury, Middlesex.

B. BENNETT & SONS, LTD. (P.C.).—Capital £50,000. To carry on the business of manufacturers of and dealers in all kinds of photographic materials and apparatus, etc. Directors: Bernard, Julia, Michael and Maurice Bennett. R.O.: 53 Queen Ann Street, London, W.1.

BUSINESS CHANGES

MR. C. B. HOLLIDAY, M.P.S., is opening a pharmacy at 21 West Street, Bridlington, Yorks, on April 6.

MISS U. FLANAGAN, L.P.S.I., has opened a pharmacy at Carraroe, co. Galway, Eire.

KATHLEEN COURT (ENGLAND), LTD., have removed to 67 Effra Road, Brixton, London, S.W.2 (telephone: Brixton 6411).

D. J. SCOTT & CO. have removed to 12 Winchester House, Old Broad Street, London, E.C.2 (telephone: London Wall 5129).

JOHN RONALDSON & CO., LTD., have removed to 3 Crooked Lane, Cannon Street, London, E.C.4 (telephone unchanged: Mansion House 1321 and 6806).

MR. R. G. GIBBS, M.P.S., has acquired the pharmacy of Miss W. M. Ellis, M.P.S. (C. F. Loggin), 3 High Street, Stratford-on-Avon, and is taking over on April 4.

Appointment

JOHN WYETH & BRO., LTD., Clifton House, Euston Road, N.W.1, have appointed Mr. Alan Talbot, M.P.S., their home sales manager.

IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

COMMANDER T. D. GALBRAITH (a Joint Under-secretary of State for Scotland) told MR. R. C. BROOMAN-WHITE on March 22 that the average number of patients on doctors' lists in Scotland in January 1955 was 1,976 compared with 2,016 in April 1953 and 2,152 in January 1952. MISS P. HORNSBY-SMITH (Parliamentary Secretary, Ministry of Health) told MR. H. R. GOWER on March 28 that the average number of patients on doctors' lists at July 1, 1954, was in Wales 2,077, and in England 2,219. At July 1, 1951, the numbers were 2,348 in Wales and 2,391 in England.

Restrictive Practices Inquiry

MR. PETER THORNEYCROFT (President of the Board of Trade) told MR. N. N. DODDS on March 24 that he expected to receive by the middle of the year a report from the Monopolies Commission on certain widely prevalent discriminatory practices.

Tax on Veterinary Medicine

SIR A. BOSSOM asked the CHANCELLOR OF THE EXCHEQUER if, in his forthcoming Budget, he would consider removing the purchase tax from veterinary medicines in order to permit farmers to take full advantage of measures for the prevention of disease and to cure illness in their stock. In a written answer on March 24 MR. H. BROOKE (Financial Secretary to the Treasury) said that medicines and drugs that were of established therapeutic value could be obtained for veterinary dispensing free of tax. He could not anticipate the Chancellor's Budget statement. At present animal medicines were dealt with on the same lines as human medicines, with the result that a large number were exempted.

Transfer of Food Ministry Functions

The House of Commons approved the transfer of functions (Ministry of Food) Order, 1955, on March 28 (see *C. & D.*, March 26, p. 337). During the debate MR. HARRY CROOKSHANK (Lord Privy Seal) said that another order would be placed before the House on a division of responsibilities of Food and Drugs legislation between the Ministry of Health and the new Ministry. Generally the Minister of Health would have the primary responsibility for hygiene problems and the new Minister would deal with regulations on the composition and labelling of food.

Cortisone Products on Prescription

MISS P. HORNSBY-SMITH (Parliamentary Secretary, Ministry of Health) told MRS. L. JEGER in a written answer on March 28 that the Minister of Health was not yet in a position to make cortisone products available on prescription by general practitioners.

N.H.S. STATISTICS

In ENGLAND during December 1954, 18,710,265 prescriptions (10,697,929 forms) were dispensed at a total cost for ingredients, fees and containers of £3,964,338. The average total cost per prescription was 50·85d. and the average dispensing fee 12·49d.

In NORTHERN IRELAND during August 1954, 475,520 prescriptions (289,124 forms) were dispensed at a total cost of £120,726. The average total cost per prescription was 5s. 0·93d. During September 1954, 522,064 prescriptions (316,639 forms) were dispensed at a total cost of £132,107. The average total cost per prescription was 5s. 0·73d.

MARRIAGE

SMITH—BARR. — At All Saints Parish Church, Mickleover, Derby, on March 16, John Dibb Smith, Beech Lodge, Melbourne, Derby, to Pamela Doraine Barr, M.P.S., 155 Pastures Hill, Littleover, Derby.

DEATHS

ASTON. — Recently, Mr. Alfred Richard Aston, M.P.S., Hope Street, Saltney, Chester. Mr. Aston qualified in 1925.

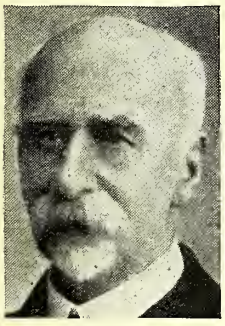
BARCLAY.—At Glencraig, Fife, on March 27, Mr. Charles Barclay, M.P.S. Mr. Barclay qualified in 1905 and was in business in Glencraig. He was an elder of Lochcraig Church and had served for many years on the management committee of the Miners' Welfare Scheme.

BANE.—On September 23, 1954, Mr. Moses Goodman Bane, M.P.S., 213 Winchester House, Loveday Street, Johannesburg, South Africa. Mr. Bane was registered in pursuance of section 11 of the Medical Practitioners and Pharmacists Act, 1947.

BOWDEN.—In Hounslow Hospital on March 10, Mr. William Henry Bowden, M.P.S., 92 Staines Road, Hounslow, aged fifty. Mr. Bowden was a founder member of the Hounslow Branch of the Pharmaceutical Society and its chairman from its inception in 1947 until he resigned in 1952. He continued to serve on the committee. He was also chairman of the Hounslow Branch of the National Pharmaceutical Union, and was a past-president of the Hounslow chamber of commerce.

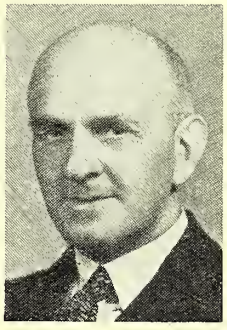
GREGSON.—On March 7, Mr. Joseph Gregson, M.P.S., 53 Oakville Avenue, Scarborough, aged ninety-two.

JACK. — At 6 Alexandra Place, Arbroath, Angus, on March 26, Mr. James Jack, F.P.S., F.L.S., aged ninety-two.



Mr. Jack qualified as a chemist and druggist in 1884 and passed the Pharmaceutical Chemist examination in 1886. He was a member of the Pharmaceutical Society's Council from 1924 to 1943. He served his apprenticeship with Shield & Mill in Arbroath and gained further experience in the employ of Duncan, Flockhart & Co., Edinburgh. After passing the Major examination he became associated with his old Arbroath firm as partner and eventually as sole proprietor. He was for many years a member of the Executive of the Pharmaceutical Society's North British Branch (now the Scottish Department) and had been its chairman. He was also an examiner to the Society in Edinburgh. When the Scottish Pharmaceutical Federation was inaugurated in 1919 Mr. Jack was elected president, an office he held for many years. He did much original work on marine algæ and in recognition of that work he was made a fellow of the Linnean Society. He was a Fellow of the Society of Antiquaries. Mr. Jack was a justice of the peace and a member of various public committees in Arbroath. He was a Past Master of his lodge of Freemasons. He was twice chairman of the Arbroath Chamber of Commerce. He is survived by a daughter.

MANN.—Recently, Mr. Ernest William Mann, B.Sc., F.P.S., F.R.I.C., 397 Streetsbrook Road, Solihull, Warwicks, aged seventy - eight.



Mr. Mann was a former managing director of Southall Bros. & Barclay (1935), Ltd., Birmingham. He qualified as a chemist and druggist in 1899 and passed the Pharmaceutical Chemist examination in 1903. He joined Messrs. Southall Bros. & Barclay sixty-three years ago as an articled youth in the analytical laboratory. Eleven years later he was appointed chief chemist, and he joined the board in 1916. He gained a B.Sc. (Hons.) degree from London University in 1911. Two years later he became a Fellow of the [Royal] Institute of Chemistry. Mr. Mann retired in 1940. In 1948 he became an honorary associate of Birmingham Technical College and was elected to its governing body two years later. He was three times president of the Birmingham Pharmaceutical Association.

MARSH.—On February 27, Mr. George Marsh, M.P.S., 438 Ombersley Road, Bevere, Worcester. Mr. Marsh qualified in 1917.

TAYLOR. — At Scarborough, on March 18, Mr. Abraham Taylor, aged eighty-six. Mr. Taylor qualified as a chemist and druggist in 1893. He was a past president of the Dewsbury and Halifax Pharmacists' Associations, and a former member of the Morley town council and president of the Morley and West Riding chambers of commerce. He is survived by three sons, who are pharmacists: Messrs Dixon Taylor (Bayer Products, Ltd.); Donald Taylor (Royal Infirmary, Halifax); and Henry Taylor (Middleton & Co., Ltd., Middlesbrough).

WRENTMORE. — At Tunbridge Wells, on March 22, Mr. John Harris Wrentmore, aged ninety. Mr. Wrentmore was a director of Vitamins, Ltd., and Agricultural Food Products, Ltd. His connection with the companies of the group lasted uninterruptedly for thirty-four years. He fulfilled all his duties and attended every important function until ten days before his death.

A Colleague writes: Mr. Wrentmore's work and personality caused him to be held in affectionate regard in all quarters throughout the group. He will be remembered not only as director, but as friend.

PERSONALITIES

MR. G. M. MUCKART, M.P.S., Carluke, Lanarks, will be question-master of a brains trust at the annual meeting of the Lanark Unionist Local Association.

MR. J. G. MALPASS, M.P.S., Eaglescliffe, co. Durham, recently gave a talk to Stockton and Thornaby rotary club on his work as proprietor of a firm of wholesale chemists.

MR. A. G. M. MADGE, M.P.S. (secretary of the Plymouth Branch of the Pharmaceutical Society) has been elected president of the Departmental Managers' Association of the Plymouth Co-operative Society, Ltd.

MR. H. STEVENS, M.P.S., Kirton, nr. Boston, Lincs, is shortly due home after a visit to Africa, during which he has been on safari into the game reserves on the slopes of Mount Kilimanjaro, and has covered several thousand miles.

MR. H. M. W. NICHOLSON (chief pharmacist to the Medical Department of Tanganyika) who qualified in Britain as a chemist and druggist in 1929, was elected president of the Tanganyika golfing society at the Society's recent annual meeting.

MR. ALAN TALBOT, M.P.S., who has been appointed home sales manager to John Wyeth & Bro., Ltd., joined the staff of the company in January 1954. After serving his apprenticeship under the late Mr. C. Rankin, Sunderland, he qualified as a chemist and druggist in 1938. Following service in the 1939–45 war, he joined the medical representative staff of Pharmaceutical Specialities (May & Baker), Ltd., and was later appointed to an executive position in the export division of May & Baker, Ltd.

ALDERMAN T. G. BANNISTER, M.P.S., Tewkesbury, Glos, has been invited to be mayor of Tewkesbury for the fourth successive year. Alderman Bannister is the son of the late Mr. F. E. Bannister, a founder of Bannister & Thatcher, Ltd., chemists, who have numerous branches throughout Walsall and district. His brother, Mr. F. A. C. Bannister, M.P.S., is managing director of the company and alderman Bannister is also a director, although he has lived in Tewkesbury for the past twenty years.

MISS ZADA M. COOPER, whose eightieth birthday was celebrated recently, is an American pharmacist of outstanding distinction. Publishing her portrait in a recent issue the *American Journal of Pharmacy* said "We salute this fine lady . . . and pay tribute to her long and faithful service as Professor of Pharmacy at the State University of Iowa and secretary-treasurer of the American Association of Colleges of Pharmacy."



TRADE NOTES

Single Sheep-dip Preparations.—A range of products suitable for taking into stock in readiness for the sheep dipping season is offered by Battle, Hayward & Bower, Ltd., Lincoln.

Spray Containers.—Spray containers of Nobecutane (sterile plastic wound dressing) are now available from the manufacturers, Evans Medical Supplies, Ltd., Speke, Liverpool, 19.

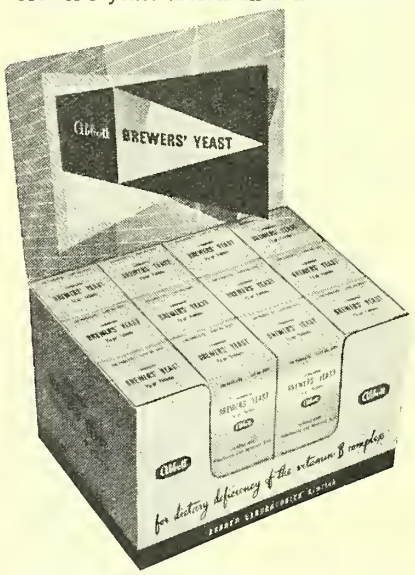
Deliveries from Stock.—Thawpit, Ltd., 38 Woodstock Grove, London, W.12, promise immediate delivery of their new Thawpit cleaning pad as well as of the standard Thawpit clothes cleaner.

Package Redesigned. — Meds, the tampon-type sanitary protection made by the personal products division of Johnson & Johnson (Great Britain), Ltd., are now issued in a new pack in blue-and-white colour scheme and elegant type-face.

Available on EC10's. — Tetracycline is now available on EC10 prescriptions. Proprietary brands affected are Achromycin (Lederle laboratories division of Cyanamid Products, Ltd., North West Wing, Bush House, Aldwych, London, W.C.2) and Tetracyn (Pfizer, Ltd., 137 Sandgate Road, Folkestone, Kent).

Correction to Advertisement.—Fine Spinners and Doublers, Ltd., St. James's Square, Manchester, 2, point out that their announcement in the March 5 issue of the *C. & D.*, gave an incorrect telephone number for the company's Nottingham office. The correct number is Nottingham 53595–96.

Display Outer. — Abbott Laboratories, Ltd., Perivale, Greenford, Middlesex, are now supplying Abbott's brewer's yeast tablets in a new colour-



ful outer containing one doz. 100-tablet bottles. The display box has a name panel in "mobile" fashion, giving it a third dimension. The pack was recently on display at Olympia, London, as a "highly commended" entry in the British Carton Association's design contest.

An Additional Strength. — To the Eskacillin range of palatable liquid oral penicillins issued by Menley & James, Ltd., Coldharbour Lane, London, S.E.5, is now added Eskacillin 300, containing 300,000 international units of penicillin per standard medical teaspoonful. The pack is a 1½-oz. bottle.

Thyroid Inhibitor.—Peroidin brand potassium perchlorate is claimed by the makers, Matthews & Wilson, Ltd., 6 Cole Street, London, S.E.1, to inhibit the ability of the thyroid to store iodine. It is thus of value in controlling thyrotoxicosis and in the treatment of hyperthyroidism. Peroidin is presented in bottles of 100, 500, 1,000 and 5,000 tablets, each containing 50 mgm. or 200 mgm.

Potency Increased. — The Crookes Laboratories, Ltd., Park Royal, London, N.W.10, announce that the potency of Crookes' vitamin-A capsules has been increased to 50,000 international units per capsule. They now conform with the official requirements for caps. vitamin A forte, N.F. 1955. The capsules are issued in packs of twenty-five, 100 and 500 capsules. Capsules of the old potency (33,000 i.u.) have been withdrawn.

Change of Name and New Strength. —The stabilised injection of streptomycin sulphate prepared by Glaxo Laboratories, Ltd., Greenford, Middlesex, is being renamed Strepolin, and on March 28 an additional strength (1 gm. in 4 c.c.) is being marketed under the name Strepolin 25 per cent. The new strength is being issued in packs of ten vials of 1 gm. in 4 c.c. or 5 gm. in 20 c.c. The trade names Strepolin 50 per cent. and Strepolin 33 per cent. are being used in future for the 1 gm. in 2 c.c. and 1 gm. in 3 c.c. strengths.

Manufactured in Britain. — Pfizer, Ltd., 137 Sandgate Road, Folkestone, Kent, are manufacturing as registered user for C. H. Boehringer Sohn, Ingelheim-am-Rhein, Germany, the proprietary spasmolytic Buscopan (hyoscine N-butylbromide). Buscopan is intended for the treatment of gastric and duodenal ulcer, spastic disorders of the gastro-intestinal tract, spasm of the biliary ducts and urinary tract, or delayed relaxation of the lower uterine segment during labour spastic dysmenorrhoea. It is presented in tube of twenty, bottles of 100 and 500 tablets of 0·01 gm., and in boxes of six and thirty ampoules of 0·02 gm.

Bonus Offers

PRITCHARDS, LTD., Cheadle, Ches. During March and April, special early-booking bonus on orders for Pritchards DDT Spray-a-Mist for delivery not later than May 28. Offer applies also to the company's DDT powder puffer, Purosan home disinfectant, and Puroda air freshener.

ROTOSAN air conditioner. Bonus terms (see *C. & D.*, March 26, p. 338) are obtainable through wholesalers or direct from the sole distributors: Cullingford of Chelsea (Castle Soaps of Cambridge, Ltd.), 79 Lots Road, London, S.W.10.

SMITH & NEPHEW, LTD., Welwyn Garden City, Herts. Nivea crême. Three dozen 2s. 3d. tins with every £7 10s. order.

Holiday and Other Closings

THE following companies have announced that they will be closed for the Easter holiday from Thursday evening, April 7, until Tuesday morning, April 12:—

BAYER PRODUCTS, LTD., Neville House, Eden Street, Kingston-on-Thames, Surrey.

THE BRITISH DRUG HOUSES, LTD., Graham Street, City Road, London, N.1.

BUTLER & CRISPE, LTD., 80 Clerkenwell Road, London, E.C.1.

GLAXO LABORATORIES, LTD., Greenford, Middlesex (skeleton staff for emergency orders on Saturday morning, April 9).

MAY & BAKER, LTD., and PHARMACEUTICAL SPECIALITIES (MAY & BAKER), LTD., Dagenham, Essex (urgent supplies from John Bell & Croyden, 50 Wigmore Street, London, W.1).

PAINES & BYRNE, LTD., Perivale, Greenford, Middlesex (urgent supplies from John Bell & Croyden).

PARKE, DAVIS & CO., LTD., Staines Road, Hounslow, Middlesex (urgent orders from John Bell & Croyden. Scottish branch closed on Monday, April 11 only).

The following are closing from Friday evening, April 8, until Wednesday morning, April 13:—

GENATOSAN, LTD., Loughborough, Leics (Scottish depôt, 65 Berkeley Street, Glasgow, C.3, reopens on Tuesday morning, April 12).

RIKER LABORATORIES, LTD., Loughborough (skeleton staff on duty on Tuesday, April 12).

The following special arrangements should be noted:—

PFIZER, LTD., 137 Sandgate Road, Folkestone, Kent. Closed Good Friday and Easter Monday. Orders received on Saturday, April 9, are being dealt with as usual.

SMITH & HILL (CHEMISTS), LTD., Matilda Street, Sheffield, 1. Open on Good Friday and Saturday, April 9. Closed Easter Monday and Tuesday, April 11 and 12.

J. H. HAYWOOD, LTD., 11 Warser Gate, Nottingham. Closed for stocktaking from Friday evening April 1 until Monday morning, April 4. Holiday closing on Easter Monday only.

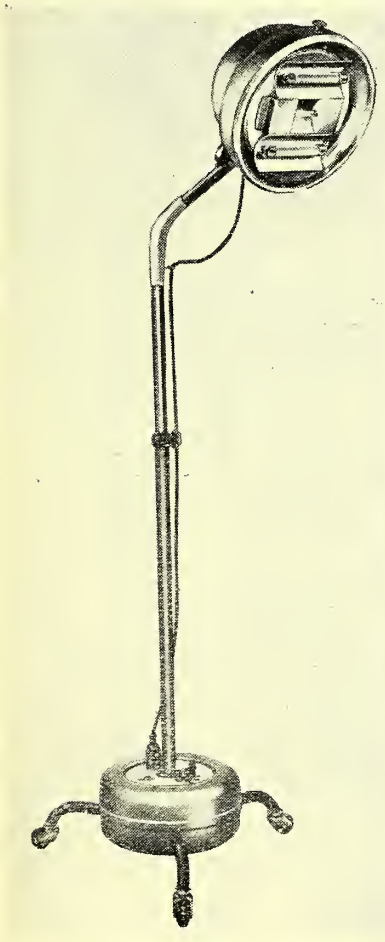
BIOREX LABORATORIES, LTD., 47 Exmouth Street, Rosebery Avenue, London, E.C.1, will be open during the Easter holiday as follows: Thursday, April 7: 9 a.m. to 8 p.m.; Friday, April 8: 10.30 a.m. to 12.30 p.m.; Saturday, April 9: 9 a.m. to 8 p.m.; Sunday, April 10: 10.30 a.m. to 12.30 p.m.; Monday, April 11: 10.30 a.m. to 12.30 p.m.; Tuesday, April 12: 9 a.m. to 8 p.m.

NEW PRODUCTS AND PACKS

A New Perfume.—Black Rose is the title of a new perfume introduced by Goya, Ltd., 161 New Bond Street, London, W.1.

Roundworm Remedy for Poultry and Pigs.—Pipricide, a preparation of piperazine citrate, described as "the ideal ascarifuge for pigs and poultry" is now available in containers of 1 oz. and 8 oz. from the manufacturers, Burroughs Wellcome & Co., 183 Euston Road, London, N.W.1.

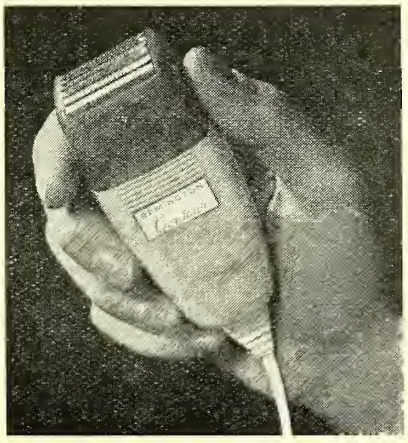
Three-way Lamp on Mobile Stand.—The new Barber prescription model 465 combined ultra-violet, infra-red (black heat) and luminous (red) heat Health Lamp introduced by Barber Electrical Services, Ltd., Leach Street, Birmingham, 16, has been produced to meet a demand for a *de-luxe* floor-stand version of the Barber table model 365 combined unit. It has, however, additional features. Mounted on an extendable floor standard, the 465 enables the user to select, by means of a rotary-type four-position switch, the alternatives of ultra-violet, infra-red or luminous heat irradiation. The equipment stands on a tripod mounted on free-running ball-race castors, and the circular base houses all electrical control gear. From the centre a telescopic upright tube rises to support the treatment head, which contains the radiation generators. Two (only) locking thumb screws enable the head to be adjusted at any desired height or angle up to 5 ft. 6 in., or as low as 3 ft. 4 in. Maximum overhang over an average bed or couch is 18 in., and it is therefore possible to treat a standing, sitting or prone patient without inconvenience or discomfort. A rubber handgrip helps to make extremely simple the handling of the extending tube. In addition to "off," the control switches on the ultra-violet generator (consuming 125 watts), or the infra-red generators (consumption 425 watts), or the luminous heat generators (consumption 625 watts). A neon pilot light shows when the mains supply is connected.



All-purpose Toilet Cream.—Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool, 1, are marketing a new all-purpose toilet cream, Aristocrat cream, recommended for use as a cosmetic base, hand cream, skin softener, night cream and sun cream. Aristocrat cream has a soft, delicate texture and a perfume that was selected after extensive consumer tests. The cream is covered with gold foil in easily opened tins, printed in claret and gold on a cream base. The compact and distinctive display outer contains one dozen tins. Aristocrat cream is sold only through pharmacies.



"Second-line" Shaver.—In response to requests from the trade, and with extended production facilities, Remington Rand, Ltd. (shaver division), have introduced a second-line Remington shaver: the new Contour, which is being widely advertised in the national Press. In view of its competitive price the company's £2 "trade-in" allowance offer will not apply to this model, and no dummy or demonstration models will be available for the time being. Initial distribution is through wholesalers. The Contour has three double shaving heads, precision-honed to approximately 2/1,000 in., is hand-fitting, and is finished in cream and fawn plastic. Its rotary motor operates at 8,000-8,500 revolutions per minute and is fully insulated and suppressed for television/radio interference.



Eyelash Cream.—Claimed to promote eyelash growth, Talika eyelash cream, a product of Danielle Roches, Paris, France, is distributed in Great Britain by George Spencer & Co., Kynance Place, London, S.W.7. The pack is a flat jar in illustrated carton.



Soft Drink Powders.—Keen, Robinson & Co., Ltd., Carrow Works, Norwich, are marketing a new soft-drink powder, Robinade, in five flavours: Lemonade powder, orange, raspberry, pineapple and lime flavours. Each, on addition to cold water, mixes instantly to a refreshing drink costing less than a penny a glass. Care has been taken to produce a full, balanced flavour, and the drinks should be popular with both children and adults. The powder is packed in a composite container with an outside lamination of aluminium foil. The aluminium foil is effective in prolonging the shelf life, and provides a bright contrast with the identifying coloured bands, which differ for each flavour. Initial deliveries are being made in display containers, each containing 1 doz. tins. There are two standard packings. One contains 1 doz. of lemonade powder only. The other contains a combination of the other flavours. Robinade was tested out in the Bristol area in the summer of 1954 when it was marketed experimentally as Fruitade. The marketing is being supported by Press and magazine advertising and by a filmlet to be shown in cinemas throughout the country.



CHEMICAL ENGINEERING

International Conference in London

THE functions and education of the chemical engineer in Europe were discussed at the international conference of chemical engineers held in London, March 21–23 (see *C. & D.*, March 26, p. 333).

One of the results of the conference may be that the term "chemical engineer" will be defined so as to have the same meaning in all countries. At the conference there was a considerable difference of opinion on the matter. DR. K. REISS, Germany, said that his country had created a "process engineer" class from a specialised faculty of process technology. That engineer differed from the chemical engineer in that he devoted less time to studying chemistry. Expressed as a percentage of working hours per week the chemical engineer spent seventeen on chemistry while the process engineer spent seventeen on the finer details of engineering fundamentals. Dr. Reiss quoted from a report issued some years ago by the Organisation for European Economic Co-operation which said that "the chemical engineer is neither a chemist with some knowledge of engineering nor a mechanical engineer with some knowledge of chemistry, but a new type of engineer with a field of activity of his own." Such a definition was hardly acceptable to the German delegation, and that was underlined by PROFESSOR K. WINNACKER, Germany, who said that in leading circles of the German chemical industry an effort was being made to avoid the training of technicians so that they became "half engineer and half chemist."

SIR CHRISTOPHER HINTON, United Kingdom, applied the term chemical engineer to those who were engaged in designing and operating pilot plants in order to determine the dimensions that would be needed for a full-scale design. It was desirable for a man of that type to have, besides his theoretical training in process engineering, workshop experience in mechanical engineering and experience in the operation of chemical plants. The difficulty in devising training courses for such men was to strike a balance so that they knew what it was desirable that they should know and yet not spend too many years in academic study.

DR. K. G. K. PETERS, Austria, said that in his opinion the education of a chemical engineer ought not to be "pressed into a mould" and declared to fall within the competence of one faculty or another or to be part of a special branch of knowledge. The Belgian viewpoint was put by MR. N. CHORINE, who said that the chemical engineer was essentially a technologist who applied the knowledge and capacity of engineering to the chemical industry.

One of the objects of the conference was to emphasise the need for more chemical engineers. Messrs. J. P. V. WOOLLAM and J. M. SALBETT, United Kingdom, said it was true that, even if the output of the universities was suddenly increased substantially, the additional chemical engineers thus made available could not be employed in the most effective way for a considerable time. The present shortage was such that the facilities for giving new entrants practical training under suitable guidance were severely taxed already. That in turn contributed to the effective shortage. "This vicious circle must be tackled in a vigorous way, perhaps on a national scale."

On the closing day delegates to the conference were invited to a reception given by Imperial Chemical Industries, Ltd. DR. ALEXANDER FLECK (chairman of the company), MR. A. J. QUIG and SIR HEWITT SMITH (deputy-chairmen) welcomed the guests.

IRISH PHARMACY LEGISLATION

Clonmel Chemists' Discussion

NEW pharmacy legislation was discussed at a meeting of the Clonmel and District Chemists' Association held in Clonmel on March 4, Mr. Frank Loughman in the chair. Messrs. Michael Costello (president, Pharmaceutical Society of Ireland), P. F. McGrath (vice-president) and Brendan Smith (secretary, Irish Drug Association) were present. MR. LOUGHMAN said that the chemists of Ireland owed a great deal to Mr. Costello for all he had done on their behalf during the past two years. He also paid tribute to the work of Mr. McGrath on the National Health Council, and to the capable and able way in which Mr. Brendan Smith had carried out the work of the I.D.A. during an "exceptionally testing and difficult period." Opening the discussion, MR. COSTELLO said that the loyalty and co-operation of chemists all over the country was a real source of strength to the Society. The Council thought that it was better to have a separate pharmacy Act—dealing with pharmacy matters only—and Poison Bill. In the discussion that followed, MR. P. HICKEY, Thurles, expressed the hope that any new Act passed would control the wholesale as well as the retail side of pharmacy. MR. J. O'SULLIVAN, Fethard, said that the country chemists thought that legislation dealing with the wholesale side of the business was a first essential. MR. T. J. MORAN, Clonmel, pointed out that certain "ethical" firms were refusing to supply on wholesale terms to chemists, and that was a matter that would have to be considered.

MR. DAVID HILL, Dungarvan, said that the sale of vaccines by non-pharmacists was a very serious matter which no country should tolerate. MR. P. HICKEY proposed and MR. P. GODFREY, Cahir, seconded a motion that was passed unanimously that the meeting approve of the Pharmaceutical Society's heads for legislation, and that those were worthy of support. Several members expressed views urging that the new Bill should deal with the L.A.H. position. MR. MCGRATH addressed the meeting on the provisions of the Health Act as it related to chemists. MR. SMITH answered a number of queries in connection with that Act, and mentioned that the I.D.A. was pricing the large number of prescriptions now coming in from different parts of the country. In some areas, including Dublin, where the doctors were not co-operating, chemists were not receiving prescriptions. Since the number of prescriptions ran into four figures he would ask the indulgence of chemists if the Association sometimes ran into arrears. It would be a help if chemists, in sending in prescriptions for pricing, indicated the size of the mixture supplied, and also, in the case of difficult handwriting on the part of the local doctor, gave any help in that matter. It was agreed on the proposal of MR. E. M. QUIRKE, Clonmel, that the chairman, with Messrs. J. P. Kissane, Tipperary, T. Kennedy, Cashel, and P. Joy, Clonmel, should be appointed as a deputation to interview the county manager on the supplies of maternity packs under the Health Act.

STERILISERS

Many in Britain Obsolete?

MUCH of the existing sterilising equipment in Britain was obsolete, said MR. JOHN H. BOWIE, M.B., Ch.B., M.R.C.P.E. (department of bacteriology, Edinburgh Royal Infirmary), addressing an evening meeting of the Scottish Department of the Pharmaceutical Society in Edinburgh recently. Dr. Bowie said that in Britain the number of firms manufacturing sterilisers was at least four times the number in America, Switzerland and Germany put together. Consequently, British firms had never had been able to afford to specialise, and at no time during the present century had the country's apparatus been up-to-date. In most of the older instruments the process of sterilisation could not be controlled and so the valuable surgical and pharmaceutical supplies being treated were in danger of destruction owing to variations in temperature. The original "pressure cooker" types of steriliser were built by Koch, Pasteur and their pupils in the 1870's, and since then great developments in design had taken place both in Europe and America. In Switzerland and Germany the functional design of some standard types of sterilisers produced during the past two years was in advance of their American counterparts. There were fifty or more different kinds of sterilisers on the market for the preparation of pharmaceutical and surgical supplies together with a much wider range of special instruments used to prevent the spread of infection by water, air, clothing, natural and processed food, drink, etc. Steam plant predominated, as dry saturated steam at 250° F. was a very efficient steriliser. The steam condensed on any accessible surface, including bacteria, which was cooler than itself. The microbe was coagulated by the heat and so killed, in much the same way as an egg was coagulated in boiling water. Mr. S. Hughan (chairman of the Executive of the Scottish Department) presided at the meeting.

PRODUCTIVITY IN THE DRUG INDUSTRY

Need for the pooling of ideas

A BOOKLET entitled "The Machines Behind Medicines—A Review of Productivity in the Pharmaceutical Industry" was published by the British Productivity Council on March 27, price 2s. 3d. It seeks to show how individual firms have made striking advances in the use of their resources but stresses the need for the pooling of ideas. The following is a summary of the report:—

The report states that, at the most conservative estimate, the industry can be said to have expanded threefold since the mid-'thirties. Comparison of increases in the number of workers employed and the industry's output over the years as a guide to productivity would be misleading (even if price changes were allowed for) because of the rapidly changing nature of pharmaceutical products. Apart from the increase of exports, one of the main reasons for the remarkable expansion of the industry was the impetus given by the war to the manufacture of new drugs.

The nine largest companies employed an average of 2,000 workers each and were responsible for some 31 per cent. of the industry's gross output by value. In the middle range were eight firms with an average labour force of 660 and ninety-three concerns with an average employment of 240; those two groups accounted, together, for approximately 51 per cent. of the value of output. The remaining 176 firms had an average of forty-two workers each and produced, together, only 18 per cent.

The value of pharmaceutical exports had increased from £3,280,000 in 1938 to £33,600,000 in 1954.

Striking Feature

One of the most striking features of the pharmaceutical industry was the variety of practice between one firm and another. That was in part accounted for by the immense range of the industry's products. Nevertheless, a higher degree of collaboration than at present existed would be of value, particularly to the smaller concerns. A certain degree of collaboration had been effected through the industry's organisations. Those firms with chemical manufacturing interests which were members of the Association of British Chemical Manufacturers had benefited from that association's activities in the fields of work study, recruitment and other subjects. The advantages of co-operation were also illustrated by the work of the Association of British Insulin Manufacturers.

The productivity team that visited America in 1950 was the first attempt by the industry at inter-firm collaboration on a large scale. Apart from the team's report (see *C. & D.*, September 8, 1951, p. 306) which made many recommendations of value to the industry, the tour of British factories undertaken before departure to the United States, created a precedent of co-operation. The team had given an impetus to informal contacts, a few concerns had developed a sufficiently friendly relationship with each other to permit exchanges of advice on technical problems and even the sharing of production capacity. The need for frequent chemical analysis was an undoubted brake on production. It might be of benefit if the minimum amount of inspection consistent with safety and a satisfactory product were to be established by comparison of individual practice.

Change to Metric Working

The change to metric working on the recommendation of the Association of British Pharmaceutical Industry's productivity committee and at the same time to the sale of liquids by volume was undoubtedly one of the biggest steps towards more efficient production taken by the industry. An increasing trend towards specialisation was apparent in the industry. It had been hastened by the high cost of installing and operating plant for the production of synthetic drugs and by intensified competition in the market for standard pharmaceuticals. Many of the larger and more successful firms had eliminated uneconomical products. Similarly, many firms—particularly where work study has been applied in packing sections and the true cost of packaging operations established—had both simplified the design and construction of packs and reduced the number used for each product. The practice of preparing pharmaceuticals in customer's packs was also gradually being discontinued, with great benefit to productive efficiency. Much could be learned, also, from companies such as Glaxo Laboratories, Ltd., which had introduced multi-purpose packs—i.e., for use with more than one product.

That the planning problems of the industry were by no means insurmountable, was shown by the increasing number of firms that had instituted forward planning systems based on sales forecasts.

The growing interest in work study shown by pharmaceutical manufacturers was illustrated by the fact that, of the firms visited during the preparation of the booklet, 65 per cent. had established work study departments. Almost all those were post-war innovations; just over half of the total had been set up within the past two years. The main use of work study by pharmaceutical manufacturers so far had been to establish time standards from which to calculate the labour element in production programmes, to make costing forecasts and to formulate incentive schemes, where those existed. It was probable that its other applications would prove to be of even greater advantage.

Standard costing had been used with success in some specialised firms where the range of production was limited and the scale of operations permitted its application. Several companies had adopted also some features of the standard costing technique; many, for example, prepared series of "ideal" costs for their products, theoretically assessed on past experience, to use as a check on current production.

An aftermath of the team's visit to America was increased co-operation between the Association of British Pharmaceutical Industry and the British Chemical Plant Manufacturers' Association. Much new and improved processing machinery had been developed in Britain and it was probable that British pharmaceutical firms now had available equivalents (at least) of almost all the items of American equipment mentioned by the team.

A large proportion of pharmaceutical packaging in Britain was still carried out by hand. That was partly because of the difficulty faced by pharmaceutical manufacturers, until recently at least, in obtaining plant suitable for their special needs. The lack of multi-purpose machines had imposed a considerable handicap upon efficiency. That disadvantage was being overcome.

Limitations of Old Buildings

Generally, despite the limitations of old buildings and the variety of products, some progress could be reported in the elimination of useless movement of materials and the speeding of the flow of goods through pharmaceutical plants. But in some production departments a greater reliance than was necessary was placed on human muscle.

The pharmaceutical industry was remarkable for the excellence of its labour relations. The fact that no dispute serious enough to cause a stoppage of work had ever occurred was evidence of the care taken by managements to foster good relationships with workers.

The importance of training new entrants was another subject on which there was a wide measure of agreement among progressive firms.

An appendix to the booklet includes nineteen case histories describing practice in individual firms and improvements that have been made in a variety of fields. The companies referred to—they were chosen arbitrarily—are:

Allen & Hanburys, Ltd.; Bayer Products, Ltd.; Boots, Ltd.; The British Drug Houses, Ltd.; British Schering, Ltd.; Burroughs Wellcome & Co.; Ciba Laboratories, Ltd.; Arthur H. Cox & Co., Ltd.; The Crookes Laboratories, Ltd.; Evans Medical Supplies, Ltd.; Genatosan, Ltd.; Glaxo Laboratories, Ltd.; Howards of Ilford, Ltd.; Imperial Chemical Industries, Ltd., Pharmaceutical Division, Linlithgow; Thomas Kerfoot & Co., Ltd.; Parke, Davis & Co., Ltd.; T. & H. Smith, Ltd.; Vitamins, Ltd.; and Wright Layman & Umney, Ltd.

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UNITED STATES PHARMACOPŒIA

Additions in forthcoming fifteenth revision

IN an advance report, published recently, on the fifteenth revision of the United States Pharmacopœia, Dr. Lloyd C. Miller (director of revision) states that of the 860 entries in the new revision there will be some 242 new monographs. Some of those represented drugs returned to the U.S.P. after a lapse of some years; others had appeared in the U.S. National Formulary for five or more years. However, 102 were new drugs, or new combinations of drugs, that had not been hitherto official. Among the new drugs were six antibiotics, eleven antihistaminics, seven diagnostic aids, including sodium radioiodide which was also used for therapy, and several biologicals. The fifteenth revision is being published in May and will probably become effective between November 1 and December 31. The list of new additions to the Pharmacopœia is given below:—

Acetrizoic acid
Adrenal cortex injection
Aluminum
Aluminum chloride
Aluminum paste
Aminosalicylic acid and tablets
Amobarbital and tablets
Amobarbital sodium
Amobarbital sodium capsules
Amobarbital sodium, sterile
Amphetamine sulphate, dextro
Amphetamine sulphate, dextro, tablets
Anethole
Antazoline hydrochloride
Antazoline hydrochloride tablets
Bacitracin and ointment
Benzene hexachloride, gamma
Benzethonium chloride
Benzethonium chloride solution
Benzoic and salicylic acid ointment
Bethanechol chloride
Bethanechol chloride injection
Bethanechol chloride tablets
Bithionol
Blood, citrated whole human
Calamine lotion, phenolated
Calcium aminosalicylate
Calcium aminosalicylate tablets
Calcium pantothenate
Calcium pantothenate, racemic
Chloramphenicol ophthalmic ointment
Chlorcyclizine hydrochloride
—tablets
Chlorothen citrate
Chlorothen citrate tablets
Chlorpeniramine maleate
—tablets
Chlortetracycline hydrochloride for injection
—ophthalmic
Cholera vaccine
Coaltar solution
Corticotrophin injection
—repository
Cortisone acetate
—suspension, sterile
—ophthalmic suspension
—tablets
Decavitamin capsules
Decavitamin tablets
Dehydrocholic acid
Dehydrocholic acid tablets
Deslanoside
Deslanoside injection
Desoxycorticosterone acetate injection
Dibucaine hydrochloride
—injection
Dienestrol and tablets
Diethylcarbamazine citrate
—tablets
Dihydrostreptomycin sulphate injection
Dimenhydrinate and tablets
Dioctyl sodium sulphosuccinate
Diphenhydramine hydrochloride elixir
Diphtheria and tetanus toxoids, aluminum hydroxide absorbed
Diphtheria and tetanus toxoids and pertussis vaccine combined, alum precipitated
Diphtheria and tetanus toxoids and pertussis vaccine combined, aluminum hydroxide adsorbed
Diphtheria toxin, diagnostic, inactivated
Diphtheria toxoid, aluminum hydroxide adsorbed
Doxylamine succinate
Doxylamine succinate tablets
Dusting powder, absorbable
Erythromycin and tablets
Ethinyl œstradiol
Evans blue
Evans blue injection
Ferrous gluconate
Ferrous gluconate tablets
Fluorescein sodium solution
Folic acid injection
Formaldehyde solution
Gauze, petrolatum
Hexachlorophene
Hexachlorophene liquid soap
Hyaluronidase for injection
Hydrocortisone and tablets
Hydrocortisone acetate
—ointment
—suspension, sterile
Hyroxyamphetamine hydrobromide
Insulin, isophane, injection
Iopanoic acid and tablets
Iophendylate injection
Isoflurophate
—ophthalmic solution
Isoniazid and tablets
Isoproterenol hydrochloride
—inhalation
—tablets
Juniper tar
Levarterenol bitartrate
Levarterenol bitartrate injection
Magnesium stearate
Menadiol sodium diphosphate
Mephentermine sulphate
Mephentermine sulphate injection
Mercaptomerin sodium, sterile
Methacoline chloride, sterile
Methadone hydrochloride
—injection
Methadone hydrochloride tablets
Methamphetamine hydrochloride tablets
Methantheline bromide
Methantheline bromide tablets
Methapyrilene hydrochloride
—tablets
Methenamine mandelate
—tablets
Methimazole
Methimazole tablets
Methoxamine hydrochloride
Methoxamine hydrochloride injection
Methylcellulose
Methylrosaniline chloride
—solution
—tablets
Methylthiouracil
Methylthiouracil tablets
Morphine hydrochloride
Nalorphine hydrochloride
—injection
Neomycin sulphate
Neomycin sulphate ointment
Neomycin sulphate tablets
Nicotinic acid injection
Œstradiol dipropionate
Oxytetracycline
—for suspension, oral
Oxytetracycline hydrochloride
—capsules
—for injection
—ophthalmic
Penicillin G, benzathine
—suspension, sterile
Penicillin G, procaine and buffered crystalline penicillin G for suspension, sterile
Penicillin G, procaine, suspension, sterile
Penicillin G, procaine with aluminum stearate suspension, sterile
Penicillin-dihydrostreptomycin for suspension, sterile
Pertussis immune human serum
Phenindamine tartrate
Phenindamine tartrate tablets
Phentolamine hydrochloride
—tablets
Phentolamine methanesulphonate
—for injection
Phytonadione
Plague vaccine
Podophyllum
Podophyllum resin
Polymyxin B sulphate
—tablets
Polyoxyl 40 stearate
Potash, sulphurated
Potassic saline injection, lactated
Potassium chloride injection
Potassium permanganate tablets
Primaquine phosphate
Primaquine phosphate tablets
Procainamide hydrochloride
—capsules
—injection
Progesterone, suspension, sterile
Propylhexedrine
Propylhexedrine inhalant
Protein hydrolysate injection
Pyrathiazine hydrochloride
—tablets
Pyridoxine hydrochloride
Pyrilamine maleate
Pyrilamine maleate tablets
Salicylic acid collodion
Secobarbital sodium
Secobarbital sodium capsules
Silver nitrate, toughened
Soap, medicinal soft, liniment
Sodium acetrizoate injection
Sodium aminosalicylate
Sodium aminosalicylate tablets
Sodium carbonate, monohydrated
Sodium carboxymethylcellulose
Sodium chloride tablets
Sodium fluoride
Sodium hydroxide
Sodium indigotindisulphonate
—injection
Sodium radioiodide (I^{131}) solution
Stearic acid
Streptoduocin for injection
Streptomycin sulphate injection
Succinylcholine chloride
—injection
Sulphacetamide
Sulphacetamide tablets
Sulphacetamide sodium
Sulphacetamide sodium ointment
Sulphacetamide sodium solution
Sulphamethazine
Sulphapyridine
Sulphapyridine tablets
Sulphisoxazole
Sulphisoxazole tablets
Sulphoxone sodium
Sulphoxone sodium tablets
Testosterone suspension, sterile
Tetanus toxoid, aluminium hydroxide adsorbed
Tetracaine hydrochloride injection
Tetracycline
Tetracycline suspension, oral
Tetracycline hydrochloride
—capsules
—tablets
Thenyldiamine hydrochloride
—tablets
Thonzylamine hydrochloride
—tablets
Tolazoline hydrochloride
Trimethadione solution
Trisulphapyrimidines suspension, oral
—tablets
Undecylenic acid
Water-miscible vitamin A
White lotion
Zinc undecylenate

A total of 163 U.S.P. XIV articles have been dropped by the revision committee. They include:—

Acetanilide; amphetamine and inhalant; belladonna extract; boric acid ointment; calcium lactate and tablets; camphor liniment and water; caraway; cascara sagrada extract, tablets, and fluid extract; cocaine; cochineal; codeine phosphate; digitalis injection and tincture; ephedrine and ephedrine hydrochloride; gentian; glycyrrhiza extract; sulphaguanidine and tablets; sulphamerazine sodium injection; sulphamerazine sodium sterile; sulphanilamide and tablets; sulphathiazole and tablets; mephathiazole sodium and injection and sterile; and tartaric acid.

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FIGURES IN THE PHARMACEUTICAL WORLD



28. Mr. C. C. STEVENS

WITH forensic pharmacy a subject in the Pharmaceutical Chemist Qualifying examination, and the practice of pharmacy so much under statutory control, it is not surprising that subjects such as "The Pharmacist and Common Law" are becoming popular at Branch meetings of the Pharmaceutical Society, or that here and there a pharmacist goes on to make a closer study of a subject in which his interest has been aroused, and to sit for the Bar examinations.

Mr. C. C. Stevens, whose name is coming to be seen with increasing frequency in branch fixture lists, is exceptionally well qualified to address proprietor pharmacists on the legal problems of the profession. He has practised as a chemist and as an optician in Birmingham and Halifax, and earlier, in 1933, was a Fairchild prizeman (the award followed a test in business as well as professional matters). He served his apprenticeship in the well-known York pharmacy of Parker & Watson, and qualified as a pharmacist in 1934 from the school of medicine, Leeds University. In the years that elapsed before he graduated Bachelor of Laws, London University, he held managerships in Yorkshire and Oxford, qualified as an optician, conducted the businesses referred to above, and underwent his War Service (in the M.I.8 division of the Intelligence Corps). Demobilised in early 1947, he worked with Glaxo Laboratories, Ltd., from that year until 1949. He was at first on the sales side but, called to the Bar in 1948, was later used by the company to deal with patents, trade marks and general legal matters. Since 1949 he has been employed by Imperial Chemical Industries, Ltd., and as assistant secretary of Imperial Chemical (Pharmaceuticals), Ltd.

Varied experience of that kind must provide an invaluable background for any pharmacist, in any sphere. The remarkable thing about Mr. Stevens is that his experience is not a background thing at all, but is right at his finger tips. A colleague once related how, when he asked C.C. for information on a certain legal matter, he was without hesitation given not simply the answer but the statute, clause, paragraph and subsection under which it came, and the page number on which it was discussed in the legal textbook. Any relevant incident from any of his experience he seems able to draw upon at will, relating it to the situation of the moment. As his life has been by no means dull, listeners are invariably treated to a generous leaven of anecdote among the solid fare. He is thoroughly at home in any company.

An associate member of the International Federation, Mr. Stevens is also an active supporter of the Franco-British Pharmaceutical Commission. At the Harrogate meeting of the Commission in 1953, when the official outing was to his home town of York, he made a tremendous hit with the Frenchmen in his own coach party by giving a racy running commentary in the most fluent French. His accent—even an Englishman could recognise—was execrable, but he made up for it with a truly Gallic wit, and by speaking up boldly and confidently (in a way that, according to the French, the English seldom do).

Mr. Stevens has made an extensive study of international pharmacy law, and has written a number of articles—notably in this paper—on various aspects of pharmaceutical practice. He is a member of the controls subcommittee of the Association of British Pharmaceutical Industry, and of the Standing Committee on the Marking of Containers of Hazardous Chemicals of the Association of British Chemical Industry, and it is certain that on both committees he concerns himself with practical realities and does not allow himself to be led away by theories, however pretty. Equally practical is the advice he gives regularly as honorary legal adviser to the Cheadle, Hulme and District Citizens' Advice Bureau. Just as he speaks up fearlessly on his own behalf, so his advice encourages others to resist an injustice or stand firm by a principle.

To say that today Mr. Stevens is much more a lawyer than a pharmacist is neither untrue nor unfair. Nevertheless his pharmaceutical training and upbringing are an essential part of his make-up. Indeed, he serves pharmacy most valiantly as a member of the Macclesfield and District Hospital Management Committee and as a representative on the Association of Hospital Management Committees.

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Flaws in the Pharmacy Act, 1954

THE preamble to the 1954 Pharmacy Act describes it as "An Act to consolidate certain enactments relating to pharmacy with corrections and improvements made under the Consolidation of Enactments (Procedure) Act, 1949. Now that the Act has been in force for some months it is pertinent to consider whether it has in fact improved and corrected the various Pharmacy Acts previously on the Statute Book.

The repeal of previous Acts and the consolidation of practically the whole law of pharmacy into one single Statute are of outstanding advantage. It simplifies administration and is easier for students and practitioners. The Act repealed in their entirety the Pharmacy Act, 1852; the Public Health Act, 1858; the Pharmacy Act, 1868; the Poisons and Pharmacy Act, 1908; the Pharmacy Act, 1929; and the Pharmacy Act, 1953. It also repealed considerable parts of the Pharmacy and Poisons Act, 1933; the Pharmacy and Medicines Act, 1941; and the Medical Practitioners and Pharmacists Act, 1947. Some parts of the earlier Pharmacy Acts had already been repealed but, with others still in force, considerable cross-reference was called for between the various Acts to obtain an up-to-date picture of current legislation. That has been rectified.

Consideration of the 1954 Act does, however, suggest that much more could have been done to bring pharmacy law into line with modern practice, and possibly to remove certain anomalies that have been perpetuated. A few comments are also called for on some of the by-laws made under the Act, especially since, once the Council's by-laws have been approved by the Privy Council, they have within their own field the force of law.

Section 2 of the Act allows for differing scales of fees, and probably the related by-law 2, section II, has given rise to the greatest amount of dissension during the past eighteen months. Part of that by-law states "A pharmacist who satisfies the Registrar that he is not regularly engaged in the practice of pharmacy or otherwise in the application of pharmaceutical knowledge shall pay a reduced fee of 2 guineas" [instead of the standard fee of 3½ guineas]. The Society does not appear to have given a clear ruling on what is or is not covered by "regularly engaged in the practice of pharmacy." In practice and in law the interpretation appears to be left to the discretion of the registrar. For important points of principle to be left to one person is not good, even when that person exercises as fair and judicial an approach to the matter as possible.

Many pharmacists having claimed to be entitled to pay the lower fee, the interpretation of "regularly in practice" has been stretched to include the application in any way of pharmaceutical knowledge in one's daily work, the effect being to bring them within the higher fee class. Pharmaceutical knowledge is so wide that it can be regarded as being applied in practically any occupation, and there is no doubt that clearer guidance ought to be given. Many pharmacists have felt so dissatisfied with the decision given on their own situation that they have ceased to be members of the Society. It might have been better if the concession had not been included in the Act or by-laws at all.

The "in practice" interpretation has a bearing on the entitlement of a pharmaceutical chemist in practice to exemption from jury service. Any pharmaceutical chemist who feels aggrieved at being charged fees at the higher rate might claim exemption from jury service, setting out clearly what his job is. Should the appropriate authority refuse to concede that the applicant is in practice, he might then well submit that finding to the registrar of the Society, and ask how it is possible to reconcile the two conflicting interpretations.

The 1954 Act retains an anomaly that should have been removed many years ago. Section 4 (2) (a) and (b) states that by-laws may provide that any person who is a qualified military dispenser or a certified assistant to an apothecary under the Apothecaries Act, 1815, may be registered as a pharmaceutical chemist without further examination. There is no reason under today's conditions why a loophole should be left for such persons to be placed on the register, especially when it is remembered that by-laws may be passed by the Council without reference to the general membership, requiring only approval by the Privy Council to come into effect. Theoretically it would be possible, did the Government of the day want a large increase in the number of registered pharmacists, for a willing Council to arrange it almost overnight, thus prejudicing considerably the position of existing members of the Society.

Section 7 of the Act deals with the Statutory Committee and in the first schedule to the Act establishes its membership. It is noteworthy that the membership of the Statutory Committee is made six: five appointed by the Society and one appointed by the Privy Council. The Privy Council appointee is chairman. He must be a person with practical legal experience, but is not required to have a legal qualification. Obviously the expression "practical legal experience" is open to ambiguity, and it would have been better if a legal qualification had been required. With the five members nominated by the Society the situation is much worse because apart from the requirement that one of them shall be a pharmaceutical chemist resident in Scotland, the other four need not be pharmacists at all. Although in practice the occasion is not likely to occur, theoretically a member's conduct could be considered by a Committee in which foreign dock labourers were in the majority. It is time such an anomalous possibility was eliminated.

Section 8 deals with questions of removal of names from the register. In it the expression "guilty of such misconduct" is used. What constitutes misconduct is entirely a matter for the Statutory Committee. Neither in the Act nor in the by-laws is there anything that

gives the Society's statement on matters of professional conduct the force of law. Many people, including, it is believed, some officers of the Society itself, consider that the Society is occasionally acting *ultra vires* under the statement. The results might be interesting if, one day, a person were to take an appeal on the statement to the Court of Appeal for decision.

Section 12, dealing with the removal from and restoration to the register, and the by-law made under it (by-law 7, section II) is obscure. It is made clear that a member who does not pay his fee during the current year may be restored to the register on payment of the fee and a penalty of half a guinea, always provided he has not been barred by the Statutory Committee. Many members have asked what would be their position if they resigned from membership and wished to return to the register in, say, five or ten years' time. Has the member an absolute right to restoration? And what would he have to pay—the fee for the year of re-entry plus a half-guinea penalty, or fees for the whole period during which his name had been off the register? From section 12 of the Act the matter appears to be entirely at the discretion of the Council. Now that fees are reaching a considerable sum it is time the position was clarified. There is no reason why a member who resigns for a period should not have an absolute right to restoration on payment of a reasonable fee.

Section 19 deals with restriction on the use of certain titles. It is noted that a person not on the register may not use the title "pharmaceutical chemist." There must be a number of people who have qualified as pharmaceutical chemists who are not on the register. What are those people to call themselves when stating their occupation? There is no reason why pharmaceutist, pharmacist, chemist and druggist, druggist, and particularly member of the Pharmaceutical Society should be made available to one and all, but it is suggested that "pharmaceutical chemist" should be placed in the same category as the title "chemist," and restricted only when used in connection with the sale of goods by retail. Members have been told by the Society in official communications that "M.P.S." is a professional qualification and "pharmaceutical chemist" a personal title. Why not, therefore, make it really so?

Additionally there are in the pharmaceutical industry a number of graduate Bachelors of Pharmacy who are not members of the Society. Many of those people have no alternative but to describe themselves as pharmaceutical chemists, because no other description is accurate. It is problematical whether the Society would be successful if it were to bring a prosecution against any such for misuse of titles. It might be difficult to obtain a conviction, unless the titles were being used in connection with retail business.

Onward from Galen

A CURRENT CAUSERIE

How the *National Formulary* is received and regarded depends very much on the point of view. "Born by economics out of war," as the *Lancet* points out, it "has won a sure place in the doctor's bag; and on the pharmacy shelf it stands in proud dilapidation beside the scarlet and gold *B.P.* in its fresh splendour. 'Why isn't it fatter?' asks the doctor, who hopes that it will prove a convenient source-book for most of his prescriptions. 'Why isn't it thinner?' says the student—though he is likely to go on to grumble at the omission of radioactive isotopes." It goes on to refer to the "moments of anguish" the Formulary Committee must have had in deciding what to drop. "Preparations that they *have* dropped are listed in the new edition, like loyal servants honourably retired; and so doctors can catch by the coat tails an old friend on the way out, by writing, for instance, Solv. Hydrarg. Perchlor. *N.F.* '52." "Pollarded Latin" is how it describes the titles, at which "competent classicists will shudder."

★

THE development of resistance in some strains of bacteria normally susceptible to antibiotics is familiar today even among the general public. Its counterpart of antibiotic dependence (in bacteria that cannot live except in the presence of the antibiotic), although as it were inherent in the conception of drug resistance, is probably less well known. Certainly it came as a surprise to me that it was of more than theoretical interest. The phenomenon is put to practical account in the screening of substances that come under examination in the search for new antibiotics with potentially valuable applications in the eradication of bacterial infections. One of the risks in that search is that valuable time and effort may be wasted on a promising "new" discovery that eventually proves to be a rediscovery of an already well established antibiotic. It is believed that streptomycin has more than once been "discovered" in that way. If each compound when isolated is tested against a streptomycin-dependent strain, the absence of any inhibitory effect at once would identify the substance under test as being streptomycin itself, and no further time would be wasted on it. That is what is happening today in a number of laboratories, according to Dr. Lumb, who described in London on March 18 to members of the microbiology section of the Society of Chemical Industry the "Lesser-known Antibiotics." Laboratories engaged in work of that kind are, it appears, able to obtain bacteria of the dependent strain from an accepted source where supplies are maintained for just that purpose.

★

ANTHELME Brillat-Savarin, author of the *Physiologie du Goût*, 1825, a book still read and enjoyed by gastronomes the world over, was born on April 1, 1755. One day on a visit to his friend General Bouvier, he found him extremely annoyed over a bill for medicines. Brillat-Savarin describes the scene:—

"As he spoke the door opened, and we saw a man of about fifty-five, carefully dressed, of tall stature, and composed demeanour. 'Sir,' said the general to him, 'the bill you have sent me is a regular physician's account.'

The Dark Man: Sir, I am not a physician.

General: And what, then, are you, sir?

The D.M.: Sir, I am an apothecary.

G.: Well, Mr. Apothecary, your assistant must have told you——

The D.M.: Sir, I have no assistant.

G.: Then what was that young man?

The D.M.: Sir, he is a pupil.

G.: I wished to tell you, sir, that your drugs——

The D.M.: I don't sell any drugs.

G.: What, then, do you sell, sir?

The D.M.: Sir, I sell medicine.

There the discussion ended. The general, ashamed of having committed so many solecisms, and of being so backward in a knowledge of the pharmaceutical language, lost his self-possession, forgot what he had to say, and paid whatever they wished."





A modern pharmacy at RAYLEIGH

THE opening by Birkumshaw & Co., chemists, Southend, in September 1954 of a branch at 31A High Street, Rayleigh, brought to that small but fast-growing Essex township the advantages of a spacious, modern, well-stocked and handsomely appointed pharmacy. Its siting at the upper end of the High Street seems to have heralded a northward shift of trade in that shopping thoroughfare, for building now in progress directly opposite the pharmacy will result in the opening of Woolworth and Lipton stores.

The whole building is new—put up on the site of a house that had to be demolished. That gave an advantage that is reflected in the plan. A central doorway between two equal, frameless-cornered plate-glass windows opens on to a shop 20 ft. by 40 ft., with counters along either side and dispensary behind a glass screen at the rear. There are no dividing walls or irregularities apart from, at the left-hand rear corner, the wall round a staircase leading to the basement. Also at the left of the rear wall is a door that leads into a small built-out stockroom and through that again into a yard at the back. A feature of the stock-room is that it has no windows, yet is fully and evenly illuminated by daylight. The secret is that a section of the corrugated asbestos roof is replaced with a matching corrugated transparent Perspex sheet. Apart from the admirable overhead lighting that provides, it allows the whole of the wall space to be used for shelving for stock.

In the shop proper the fittings are in Honduras mahogany. At the left are two 7 ft. sloping-fronted glass toilet counters with sliding glass fronts. Along the right-hand side is a mahogany-fronted drug counter with built-in trays for display of goods and, behind, three rows of drawers for small proprietaries and sliding-door cupboards beneath. Against the wall are open shelves for combined display and stock. All fittings have been "purpose-made" by A. & D. Adams, Prittlewell, Southend.

The dispensary is in "off-white." Behind and beneath the glass screen is the working bench, with "off-white" Formica top, white enamel dispensing scale, and usual drug rounds. At the right of the pharmacist as he works are the Dangerous Drugs and Schedule 1 and 4 poisons cupboards, with open shelves between, and nest of drawers and double-doored cupboards below. Behind, under the rear window are a stainless metal sink and Ascot water heater. The front of the dispensing screen consists, in its lower portion, of a 10 ft. stock-case with sliding glass doors protecting 6 inch wide shelves filled with stock. The floor is of the new Marley tiles in a mottled beige colour.

Nine strip lights give full, even illumination to shop and dispensary at night. Two 2-kilowatt electric space-heaters give a comfortable warmth to the premises on even the coldest of days, and five chairs provide for the comfort of customers, should they have to wait.

The pharmacy is under the management of one of the partners (Mr. R. G. Murrison, M.P.S.) who is assisted by a staff of three.

Top left: The shopfront, showing frameless-cornered plate-glass windows and white metal letters on black vitrolite facia.
Top right: The drug counter, with dispensary at rear.
Below: Three views of the dispensary.







MISCELLANEOUS INQUIRIES

Mineral Tonics for Poultry

What are the most suitable forms of mineral tonic for administration to poultry?

THE following formulation is a liquid preparation for addition to the drinking water, and is no doubt the sort of preparation which you want to make up for sale to poultry keepers.

Liq. ferri phosph. co.	3 fl. oz.
Sodium chloride ...	2 drachms
Potassium chloride ...	2 drachms
Potassium iodide ...	1 drachm
Copper sulphate ...	½ oz.
Cobalt sulphate ...	gr. 30
Manganese sulphate	gr. 30
Magnesium sulphate	½ oz.
Black treacle ...	3 oz.
Chloroform	min. 20
Water to 20 fluid ounces	

One tablespoonful of this mixture to be added to one gallon of drinking water for use over periods of one week.

The following powder contains the various mineral substances plus cod-liver oil for incorporation in poultry meals to be eventually fed as mash. Those powders are more likely to be used by feed manufacturers who have adequate means of mixing them.

Sodium chloride	10 lb.
Calcium carbonate	10 lb.
Calcium phosphate	25 lb.
Sulphur	1 lb.
Ferrous sulphate	1 lb.
Potassium iodide	2 oz.
Copper sulphate	1 oz.
Cobalt sulphate	½ oz.
Manganese sulphate ...	¼ oz.
Magnesium sulphate ...	½ oz.
Cod-liver oil	1 pint

5 lb. of this mixture to be incorporated in every cwt. of poultry meal.

Face Powder

A dermatologist is asking for some formulas for face powders incorporating titanium dioxide. Can you supply any?

THE following is a typical formula for a face powder containing titanium dioxide, and you could, no doubt, modify it according to the results of your own trials:—

Kaolin	40
Titanium dioxide	5
Talcum	35
Magnesium stearate	10
Magnesium carbonate	5
Rice starch	5
Colouring (e.g. orange lake and scarlet lake) about	6·5

Urine Stains

A customer asks for a method for removing urine stains from cloth.

FRESH stains can be removed by treatment with dilute solution of ammonia. Old stains are difficult to remove, but the following methods may be successful: (1) treat the stains repeatedly with alcohol. (2) moisten the stains with solution of citric acid (10 per cent.), or dilute hydrochloric acid, following by washing with hot water. (3) bleach with solution of hydrogen peroxide, or potassium permanganate and sulphurous acid.

GUIDE TO NEW MEDICAMENTS

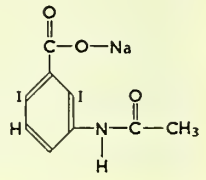
Information about proprietary products supplied principally on prescription. Reprints on perforated gummed paper for affixing to index cards are obtainable.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (April 2, 1955).

SALPIX Contrast Medium

MANUFACTURER: Ortho Pharmaceutical, Ltd., High Wycombe, Bucks.

DESCRIPTION: A water-miscible contrast medium for hysterosalpingography that eliminates the necessity for twenty-four-hour post-injection films or the interrupted fractional injection technique due to its ability to flow freely through the finest tubal lumen.



FORMULA: Salpix is a mixture of the blood extender polyvinylpyrrolidone (the viscosity medium) and the highly *x*-ray opaque, water-soluble sodium acetrizoate. Sodium acetrizoate has a high percentage (65·8 per cent.) by weight of iodine. It is stable, yielding virtually no free iodine.

USES: (1) Determination of tubal patency; (2) mechanical release of tubal obstruction; (3) diagnosis of malformations of uterus or tubes; (4) post-operative visualisation of tubal plastic surgery. It is applied by introducing cannula in accordance with usual gynæcological techniques.

HOW SUPPLIED: In package containing six vials of 6 c.c. Each rubber-capped sterile vial filled to deliver 6 c.c. Salpix contrast medium; and in package containing four vials of 10 c.c., each rubber-capped sterile vial filled to deliver 10 c.c. Salpix.

FIRST ISSUED: January 1955.

REFERENCE: Rubin, Myller and Hartman, *Fertility and Sterility*, 1953. **4.** 357.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (April 2, 1955).

TEDRAL

MANUFACTURER: William R. Warner & Co., Ltd., Power Road, London, W.4.

DESCRIPTION: Plain and Enteric-coated tablets.

FORMULA: Each tablet contains theophylline, gr. 2; ephedrine hydrochloride, gr. ⅜; and phenobarbitone, gr. ⅛.

INDICATIONS: Prophylaxis in bronchial asthma.

DOSAGE: *Daytime:* 1 plain tablet every four hours, preferably after meals. *Night:* 1 plain and 1 enteric-coated tablet at bedtime. *Children:* ½ plain tablet not more often than every four hours. For children under six years of age, dosage should be determined individually.

HOW SUPPLIED: In bottles of fifty and 500 plain or enteric-coated tablets.

FIRST ISSUED: November 1, 1954.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (April 2, 1955).

PROLOID

MANUFACTURER: William R. Warner & Co., Ltd., Power Road, London, W.4.

DESCRIPTION: A 1-gr. slotted-tablet, containing virtually pure thyroglobulin, chemically assayed for 0·1 per cent. iodine as thyroxine, and biologically for metabolic potency.

FORMULA: Thyroxine iodine, 0·1 per cent., equivalent to thyroid B.P.

INDICATIONS: All degrees of hypothyroidism.

DOSAGE: As for thyroid, B.P.

HOW PACKED: In bottles of fifty and 500 tablets.

FIRST ISSUED: November 1, 1954.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (April 2, 1955).

AROXINE Pessaries

MANUFACTURER: Burroughs Wellcome & Co., 183 Euston Road, London, N.W.1.

DESCRIPTION: Foaming pessaries each containing 75 mgm. 2-formamido-5-nitrothiazole.

INDICATION: *Trichomonas vaginalis* vaginitis.

USE: One or two pessaries to be inserted high into the vagina nightly or twice daily for fourteen days. In some patients treatment may have to be modified or repeated.

HOW SUPPLIED: In bottle of thirty and tin of 500.

FIRST ISSUED: March 1, 1955.

REFERENCE: Bushby, Catterall and Williamson, *Brit. med. J.*, 1955. **1.** 78.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (April 2, 1955).

APERIGRAN

MANUFACTURER: Fletcher, Fletcher & Co., Ltd., Vibrona Laboratories, London, N.7.

DESCRIPTION: A sterculia-based bulk-laxative in the form of chocolate-flavoured granules.

FORMULA: Sterculia, B.P.C., 30 per cent.

INDICATIONS: Chronic constipation, colitis and hæmorrhoids.

CONTRA-INDICATIONS: Should not be employed in patients where there is evidence of organic obstruction.

DOSAGE: Should be varied to suit individual requirements and may be progressively diminished as the condition responds. As a general guide, adults should take 2-3 heaped teaspoonfuls daily and children about half that amount. Each dose should be followed by a draught of water or other beverage.

HOW SUPPLIED: In 4½-oz. (130-gm.) glass jar and 5-lb. tin (for hospital use).

FIRST ISSUED: February 1955.

REFERENCE: Gray and Tainter, *Amer. J. dig. Dis.*, 1941. **8.** 130.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (April 2, 1955).

SANDRIL brand reserpine

MANUFACTURER: Eli Lilly & Co., Ltd., Basingstoke, Hants.

FORMULA: Tablets containing 0·25 mgm. reserpine.

INDICATIONS: Hypertension—especially early labile hypertension. May also be used as a sedative in neuropsychiatry.

DOSAGE: When used alone in mild hypertension the initial dose should be 1 tablet, morning and evening. Maintenance dose from 1 to 6 tablets daily. As a supplement to more potent hypotensive drugs, 1 tablet morning and evening is usually sufficient.

HOW SUPPLIED: In bottles of thirty, 100 and 1,000 tablets.

FIRST ISSUED: February 1955.

REFERENCES: Wallis and Rohatgi, *J. Pharm. Pharmacol.*, 1949. **1.** 292. Trapold and others, *J. Pharmacol.*, 1954, **110.** 49.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (April 2, 1955).

PERITRATE with phenobarbitone

MANUFACTURER: William R. Warner & Co., Ltd., Power Road, London, W.4.

FORMULA: Pentaerythritol tetranitrate (Peritrate), 10 mgm., phenobarbitone, 15 mgm.

INDICATIONS: For the anginal patient in need of sedation.

DOSAGE: Usual dosage is 1 tablet four times a day, but the preparation may be taken in conjunction with Peritrate therapy.

HOW SUPPLIED: In bottles of fifty and 500 tablets.

FIRST ISSUED: November 1954.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (April 2, 1955).

CHLOROMYCETIN Endodontic Compound

MANUFACTURER: Parke, Davis & Co., Ltd., Staines Road, Hounslow, Middlesex.

FORMULA: Chloromycetin (chloramphenicol, B.P.), 50 per cent.; chloramphenicone (Parke-Davis), 0·5 per cent.; absorbable base, q.s.

USE: By injection with cartridge-type syringe for the sterilisation of infected root canals prior to permanent filling.

HOW SUPPLIED: In cartridges containing sufficient, on an average, for twenty dressings.

FIRST ISSUED: January 21, 1955.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (April 2, 1955).

FOTOGEL

MANUFACTURER: Evans Medical Supplies, Ltd., Speke, Liverpool, 19.

DESCRIPTION: A specially flavoured, stable, 1 in 1, microfine suspension of barium sulphate, B.P., for general radiological use.

FORMULA: Barium sulphate, B.P. (1 oz. in 1 fl. oz., 1 gm. in 1 mil).

INDICATIONS: Radiological diagnosis of conditions affecting the gastrointestinal tract.

HOW SUPPLIED: In bottle of 2 litres.

NOTES: The product is suitable for medical and veterinary use.

NEW GERMAN PROPRIETARIES

Information from German pharmaceutical periodicals about recently introduced proprietaries :—

CORTISONE "HOECHST." — 17-oxy-11-dehydro-corticosterone acetate. Farbwerke Hœchst, A.G. Frankfurt (M) Höchst (*Arzneimittel Forschung*, December 1954).

DIPHEMIN - ASALETTES. — Tablets containing 0·25 mgm. each of benzil and hydrochlor. α:α diphenyl-αc-oxy-acetic acid (β-dimethyl amino ethyl)-ester. Indications: To alleviate nasal catarrh. Packs: Ten and twenty tablets. Asal, Fabrik Biological and Pharmaceutical Preparations, Berlin (West) (*Pharmazeutische Zeitung*, December 23, 1954).

GENTOCHIN. — Tablets containing 0·074 gm. quinine gentisinate. Indications: Influenza, colds and rheumatic affections. Packs: Ten, twenty and 250 sugar-coated tablets. Cassella Farbwerke, Mainkur, A.G. (*Pharmazeutische Zeitung*, February 17).

MARCOMPREN.—Tablets containing narcotine 50 mgm. For cough sedation. Packs: ten, twenty, 100 and 250 tablets. E. Merck, A.G., Darmstadt; C. F. Boehringer & Söhne, Mannheim; and Knoll, A.G., Ludwigshafen (*Pharmazeutische Zeitung*, February 17).

MYCIPEN. — Procaine penicillin, 400,000 international units; penicillin sodium, 100,000 i.u.; streptomycin sulphate, 250,000 u.; dihydrostreptomycin sulphate, 250,000 u. (=0·25 gm. streptomycin base). Indications: Cases of *Streptococcus viridans* and enterococci infections. Packs: One and twenty-five vials with ampoules of diluent. Penicillin Gesellschaft Dauelsberg & Co., Göttingen (*Pharmazeutische Zeitung*, December 23, 1954).

WORLD TRADE

Frankfurt Chemical Show. — The European chemical industry is staging its next bi-yearly exhibition at Frankfurt from May 14 to 22. Visitors from thirty-three countries are expected to view the wide variety of chemical apparatus, machinery products and ingredients and the latest developments from the laboratories of European firms and research institutes which will be displayed. The 1955 Congress of the European Federation of Chemical Engineers is to be held at the same time. Nineteen technical organisations from eleven countries will be represented. The Society of German Chemists will also hold sessions.

Subsidy for Sicilian Sulphur.—The Italian Cabinet has approved a bill designed to aid the Sicilian sulphur industry by providing additional Government funds for producers and a subsidy to help move current heavy stocks. The bill would increase from 9,000 million lire to 12,000 million the Government aid to producers for modernisation of plant and reorganisation of production. A subsidy of 10,000 lire per ton would be paid to offset losses on sales made after implementation of the new law, from supplies put at the disposal of the National Sulphur Board. There would, however, be a ceiling of 330,000 tons of the quantity for which the subsidy could be paid. Current levels of stocks in Sicily are estimated at from 250,000 to 300,000 tons. In addition, the Ministry of Industry is to make a grant of 1,150 million lire to the Regione Siciliana—the local administration—so that payments can be made to Sicilian mines to help offset production costs.

FLAVOURING AGENTS

Their use in the dispensing of medicines

By D. Etchells, B.Sc., F.P.S.

THE flavouring of oral forms of medication is itself an art which has occupied the attention of every pharmacist in one way or another. It is now the generally agreed practice for any preparation which cannot be administered in capsules, pills, tablets, etc., to be made far more palatable by the addition of a flavour or combination of flavours. This is especially so in medicines that are principally for the treatment of children's ailments; and the administration of a powder in some form of preserve is still widely practised as a means of child medication. It is interesting to note the wide range of chemical structure in compounds used specifically as flavouring agents: from simple esters (amyl acetate), alcohols (glycerin), aldehydes (vanillin) to carbohydrates (honey) and the many complex admixtures of those bases, both in a natural state as volatile oils or as pure aromatic organic chemicals.

Taste and Chemical Structure

Recent work has endeavoured to establish a relationship between chemical structure and taste. Much has been theoretically discussed to align molecular configuration and taste, but so far experiments have not fully confirmed any postulation in that respect. It is believed that the degree of ionisation and the type of ions produced in the saliva influence the interpretation by the brain, but on the other hand non-ionic compounds such as chloroform have definite tastes. An increase in hydroxyl groups increases sweetness, an explanation of which may be that it is due to increased solubility, caused by the presence of more polar groups in the molecule, since it is well known that insoluble solids present little taste. Generally speaking, however, amines, amides, and other ammonium compounds such as alkaloids and glycosides are bitter, but on the other hand imides (saccharin) are sweet. Again, soluble unsaturated compounds as a rule impart a biting taste, while compounds yielding hydrogen ions in solution bestow a sour taste.

Flavour cannot be referred to any one of the senses, but is rather a sensation of taste, smell and sight, all of which are integrated to give a perception of palatability. On the other hand individual preference is a factor to be considered, since, for example, it might be based upon an early association of a particular flavour with pleasant circumstances, unrelated to the nature of the flavour. Physical factors, imperceptible to sight or smell, also influence flavour—the oily "feel" of emulsion of paraffin, for example, is dependent on the quality of the emulsion. For our purpose, drugs the taste of which need to be suitably masked may be classified into four main groups, namely: bitter, sweet, saline and acidic, although it is of interest to note that sensations such as astringent, dry, pungent, etc., are recognised, as students of pharmacognosy well know.

In attempting to evaluate the efficiency of vehicles in disguising undesirable taste, the most complete investigations have been published by Wright[1] and Purdum[2]. Organoleptic studies were carried out using a large number of volunteers who graded vehicles as first, second, third choice and so on, on the basis of whether or not they masked the taste of a type of drug, either wholly, partially, or not at all. Sample drugs used were 0·1 per cent. quinine bisulphate, ammonium chloride and sodium bromide. Scores were given in order of preference and then the total expressed as a percentage of a first choice. From analyses of those experiments it was evident that cinnamon, liquorice and orange flavours were generally best for masking saline drugs, while chocolate or raspberry syrup were preferable for bitter drugs. Raspberry syrup again and other fruit syrups were of value in overcoming the acidic taste of some drugs, and volatile oils, either singly or admixed, were of value in emulsions of fixed oils. This work has recently been confirmed by Drommond and DeKay[3] investigating a wide range of fresh fruit syrups and elixirs for use as flavoured vehicles. Their work records the effects of the addition of gums and mucilages sometimes added with flavouring agents and their conclusions are interesting in that, out of some twenty or more different fruits, raspberry was rated best. In their experiments on the evaluation of elixirs, they used the following basis:—

Fruit juice	20–40 per cent.
Sucrose	15 per cent.
Glycerin	10 per cent.
Alcohol	15 per cent.
Benzoic acid	0·5 per cent.
Distilled water	to 100 per cent.

The simple aromatic waters of the pharmacopœias still find wide use as flavouring agents; indeed, as we have seen, cinnamon water is the best masking agent for saline drugs. Recently, new dispersing agents have introduced a fresh aspect into the preparation of both concentrated and dilute aromatic waters. Polyoxyethylene sorbitan monopalmitate (Tween 40: Honeywill and Stein, Ltd.) in minimal proportions may be substituted for alcohol; it removes the necessity for adsorption on talc and subsequent filtration. A ratio of six to one of that agent to volatile oil ensures complete dispersion of the oil in water. Taste and palatability are indistinguishable and the non-toxicity of the dispersing agent lends itself to wider use. Batches of a concentrated peppermint water prepared to the following formula gave a peppermint concentrate which, on dilution with thirty-nine times its volume of water, gave a very stable equivalent to peppermint water, from which no oily globules separated on standing.

Oil of peppermint	2
Tween 40	12
Distilled water	to 100

Chocolate syrup, as evidence suggests, provides an excellent flavouring vehicle for bitter substances. The preparation is official in the United States, but not in Britain. That is primarily due to the fact that most of the cocoa of commerce in this country is alkalised. Variations in the quality of cocoa and the resultant United States Pharmacopœia syrup, led Narinian and others[4] to suggest improvements. They investigated six formulas that were modifications of the pharmacopœial preparations, and pointed out that the high fat content of the cocoa leads to increased viscosity of the product on storage. A fat content of 20 per cent. readily produces the viscous product, but an alkalised cocoa of 10–15 per cent. is experimentally available in this country from leading chocolate manufacturers. Prepared according to the formula below, a pleasantly flavoured vehicle is produced of *p*H 6, of use in many formulations masking such bitter drugs as antihistamines.

Cocoa of low fat content ...	18 gm.
Sucrose	60 gm.
Dextrose	18 gm.
Glycerin	5 gm.
Sodium chloride	0·2 gm.
Vanillin	0·02 gm.
Sodium benzoate	0·1 gm.
Distilled water	... to 100 mils

Mix the sucrose and cocoa intimately and add a solution of the other materials dissolved in 32 mils of distilled water. Allow the solution to boil, cool and make to volume.

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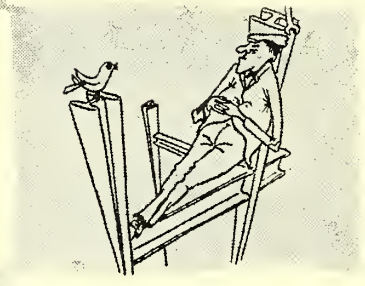
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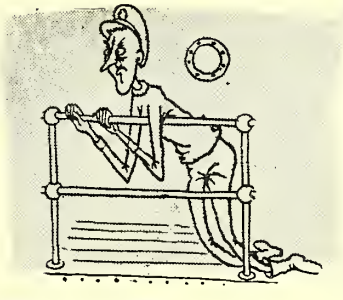
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. . . enters General Practice

The newest broad-spectrum antibiotic, tetracycline, which was discovered in the Pfizer Research Laboratories, and is available as TETRACYN, may now be prescribed by all members of the medical profession.

TETRACYN promises to be as valuable as Terramycin, which has become the most widely prescribed broad-spectrum antibiotic the world over. Like Terramycin, TETRACYN is very soluble and stable and produces comparable blood levels. TETRACYN has been used in selected cases in British hospitals since October 1954, and experience appears to confirm its early promise.

TETRACYN is indicated where certain antibiotics produce troublesome side reactions such as nausea and vomiting or prove to be ineffective.

TABLETS • ORAL SUSPENSION • PAEDIATRIC DROPS
OINTMENTS • INJECTIONS

Pfizer

WORLD'S LARGEST PRODUCER OF ANTIBIOTICS

PFIZER LIMITED • FOLKESTONE • KENT

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Syrup of raspberry, B.P.C., produces an excellent flavouring medium, especially in the preparation of children's medicines. It may be prepared from the fresh juice or a dilution of a concentrate with the addition of sucrose and preservative. Generally speaking, the raspberry fruit juice concentrates, on dilution, do not impart a good colour, but in flavour and palatability there is no distinction. Other concentrated fruit juices are available, which are relatively cheap, such as blackcurrant and strawberry juice. These again produce pleasantly flavoured syrup bases especially for linctuses. In proprietary medicines, however, synthetic flavours are finding much more use and indeed very palatable preparations can be prepared from these products. Concentrated products such as the Flavor-Mist range of flavours (W. J. Bush & Co., Ltd.) find use especially in the extemporaneous preparation of emulsions. The addition of 3 to 5 minims of those concentrates in either lemon or orange flavour to each fluid ounce of emulsion imparts a pleasant flavour. Synthetic raspberry and other flavours are now available from several sources, such as Vitacol extracts (Barnett and Foster, Ltd.) and these have proved to be very acceptable in medicinal preparations. The formula below offers a synthetic raspberry vehicle of *p*H approximately 3·0.

Synthetic raspberry concentrate ...	2
Solution of benzoic acid, B.P.C. ...	2
Solution of amaranth, B.P.C. ...	1
Syrup	30
Distilled water	to 100

Orange, among other flavours, is also available in this concentrated form, and for this flavour it is recommended that a syrup basis only be used. The author has used the following formula as a flavour for bitter substances:—

Orange flavour concentrate	2 gm.
Citric acid, B.P.	40 mgm.
Propylene glycol, B.P.C.	6 mils
Compound solution of tartrazine, B.P.C.	1 mil
Syrup	to 100 mils

Diabetic vehicles have only recently been studied in detail and several formulas have now been made available, following the introduction of the so-called vegetable hydogels, such as methylcellulose, sodium alginate, etc. A simple syrup (to which may be added such flavours as synthetic raspberry, liquor tolu, etc.) may be prepared as follows:—

Sodium alginate	2·5
Saccharin sodium	0·5
Methylhydroxybenzoate	0·1
Distilled water	to 100

Flavouring agents for use in pharmaceuticals have considerably developed over recent years and indeed the number and variety seem limitless. Care should be taken, however, in choosing a flavoured vehicle, to ensure that it is both physically and chemically compatible with the drug, the taste of which is to be masked. It is interesting to see how closely the official preparations of mixtures and linctuses follow the early work of Wright and Purdum in choice of flavouring agents and in view of the multiplicity of synthetic flavours offered it may well be wise, perhaps with the possible exception of chocolate bases, to confine any future formulations in this field to the present official range.

[1] Wright, H. N., *J. Amer. med. Ass.*, 1937. **108.** 959.
[2] Purdum, W. A., *J. Amer. pharm. Ass.* (science edition), 1942. **31.** 298.
[3] Drommond and DeKay, *J. Amer. pharm. Ass.* (practical edition), 1954. **15.** 232.
[4] Narinian and others, *J. Amer. pharm. Ass.* (practical edition), 1954. **15.** 97.

NEW BOOKS

Materia Medica Vegetabilis, Part II

E. F. STEINMETZ. Copies from the author, Keizersgracht 714, Amsterdam. 13¼ x 8¼ in. Pp. 231. 112s. 6d. for complete work.

THIS volume, companion to Part I (see *C. & D.*, November 13, 1954, p. 497), completes the monographs, of which there are nearly 1,500. Part III, to come, is an index to the entire work and will be necessary for quick reference because the monographs, although arranged alphabetically, are not always as we would expect; for example, nux vomica is found under v.

"The Alchemist" Glossary of Medical Terms

Thomas Waide & Sons, Ltd., Kirkstall Hill, Leeds, 5. 8¼ x 6 in. First series. Pp. 60. 9s. 6d. (including postage).

THE arrangement of the glossary is not that of a medical dictionary, the subject matter being under headings so that the reader of a paper or article on a particular disease can have at his side definitions of all the more important terms he is likely to come across. A comprehensive index enables any monograph, under whatever heading, to be found at once. An introductory section lists the more common prefixes, suffixes, and root words from which many medical terms are built up.

Modern Aspects of pH

J. SMALL, D.SC., F.P.S., F.R.S.E., *Baillière, Tindall & Cox, Ltd.*, 7 Henrietta Street, London, W.C.2. 8½ x 5½ in. Pp. 248. 20s.

THIS book deals with *p*H as it affects plants, and includes chapters on natural buffer systems, ecology, and the *p*H of soils and natural waters. Enzymes are dealt with at some length, and useful tables of optimum *p*H values given; a particularly interesting account is included of the enzymatic basis for the coffee plant's unusual reaction to direct sunlight, a fact that is of considerable economic importance. The author emphasises throughout that *p*H estimations are not entirely accurate unless allowance is made for the hydrogen ion activity in relation to that of associated ions, and the theoretical considerations involved may well prove of interest to physical chemists. Industrial processes where control of *p*H is necessary are briefly mentioned, the main attention being given to pectin gels and jams and jellies. An extensive bibliography (mainly of a biochemical nature) is appended. The book contains much information that is not readily available elsewhere, and deserves a place in the library of institutions where botanical research or instruction is undertaken.

Bentley's Textbook of Pharmaceutics

HAROLD DAVIS, B.SC., PH.D., F.P.S., F.R.I.C. *Baillière, Tindall & Cox, Ltd.*, 7 Henrietta Street, London, W.C.2. 8½ x 5½ in. Pp. xiv plus 1078. Sixth edition. 42s.

THE work is a standard pharmaceutical text book. The present edition has been completely revised and partly rewritten to bring it into line with recent advances in pharmaceutical knowledge and with the British Pharmacopœia, 1953. To conform with the B.P., the pharmaceutical products in Part VII have been arranged under their English titles but secondary Latin titles have been included in most cases. There are new chapters on chromotography and ion exchange, on blood products and plasma substitutes and on medical gases. The chapter on pastilles has been omitted. By some rearrangement of the chapters a more logical sequence of subjects has been obtained: the section on pharmaceutical manufacturing that, in the fifth edition, was the work of the late Mr. A. I. Robinson, has been expanded in the present edition by Mr. C. L. Sargent to include small-scale processes that were previously in the section entitled "general principles and small-scale apparatus," a section that has been renamed "physico-chemical principles." The section on pharmaceutical manufacturing is now called "pharmaceutical processes and plant." To that section has been transferred the chapter on comminution that was previously in the section on general principles; and the chapter has been enlarged to deal with grinding, sifting and mixing, previously a separate chapter heading in the section on pharmaceutical processes in previous editions. Similarly, in previous editions, infusion, maceration and percolation were given separate chapters in the small-scale apparatus section. They are now included in one chapter on extraction in the pharmaceutical processes section. Weights and measures have been taken out of the general principles section and given what is probably a more appropriate home in the dispensing section.

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, MARCH 30: Two commodities, MENTHOL and SENEGA, provided the only highlights in the CRUDE DRUGS market during the week. A considerable business was done with in-bond menthol of both Chinese and Brazilian origin, while the value of senega on the spot advanced by 2s. a lb. in the absence of offers from Canada.

The positions of IPECACUANHA and ALOES are relatively unchanged on the previous week. Buyers of CASCARA SAGRADA appear to be awaiting the new crop; meanwhile the value of 1954 PEEL appears to be marking time. The parcel of COLOCYNTH PULP which was on offer recently has been taken up, and origin is still not offering supplies. Some Jamaican KOLA NUTS are available at sevenpence per lb. whilst African halves continue in short supply at sixpence. Broadly speaking SPICES are tending to be easier.

The London ex-warehouse MERCURY price was indicated at £108 10s. to £109 per flask against £110 a week ago. Rather more metal is available on a market where demand is still on a hand-to-mouth basis. Moreover, suppliers can make replacement purchases quicker than for some time. Even so, spot London prices cannot fall much unless origin prices materially ease.

POTASSIUM PERMANGANATE is being slightly increased in price on April 1. The B.P. grade is one-halfpenny per lb. dearer and the technical, 2s. per cwt.

Many ESSENTIAL OILS remain scarce on the spot, and while a few of those were dearer, the majority of price changes recorded during the week were in a downward direction. CARAWAY was 2s. per lb. dearer for the imported oil. Offers of BOIS DE ROSE from Brazil were difficult to obtain which lent substance to a report that the bulk of the crop has been sold elsewhere (see p. 382). Ceylon CITRONELLA was firmer for shipment, coinciding with an announcement that the Ceylon Government was to seek a trade agreement with Russia. Spot prices of the oil, however, did not move up in sympathy and Formosan was offered at threepence per lb. under the forward quotation. Chinese PEPPERMINT was down by one shilling a lb. and the Brazilian by sixpence. PETITGRAIN, LEMONGRASS and CHENOPODIUM were also easier in price. Forward offers for SPEARMINT were reported to be slightly firmer.

A report on COD-LIVER OIL from Norway states that the outstanding feature of this year's Lofoten season seems to be the remarkable lack of interest applied to it by the fishermen. Normally 5,000 or more boats are assembled by now, whereas this year there are only 2,769. The presence of fish seems to give no cause for complaint since the boats have brought ashore more fish than twice the number of vessels did at the same time last year or the year before. The present output of crude cod-liver oil amounts to 18,938 hectolitres. The catch of cod off the Lofoten Isles, however, is the main source of supply of the medicinal oil. The report adds that there are four or five more weeks of fishing before the catch comes to an end.

EXCHANGE RATES ON LONDON

At the opening on Wednesday

*Alexandria	Piastres to £	97¼–97½
Amsterdam	Florins to £	10·56–10·72
*Bombay	Shillings to rupee	1/5 15/16–1/6 1/16
Brussels	Francs to £	138·95–141·05
Copenhagen	Kronor to £	19·19½–19·48½
Dutch West Indies	Florins to £	5·24–5·32
*Hong Kong	Shillings to $	1/2 3/4–1/2 13/16
*Karachi	Shillings to rupee	2/1 7/32–2/1 15/16
Lisbon	Escudos to £	79·90–81·10
*Montreal	Dollars to £	2.74 7/16
New York	Dollars to £	2·78–2·82
Oslo	Kronor to £	19·85–20·15
Paris	Francs to £	972·6–987·3
Stockholm	Kronor to £	14·37½–14·59½
*Singapore	Shillings to $	2/4 1/32–2/4 5/32
Zurich	Francs to £	12·15 5/16–12·33 9/16

*Free market rates; remainder Bank of England. Bank rate increased to 4½ per cent. on February 24.

Pharmaceutical Chemicals

ADRENALINE.—Rates for synthetic B.P. are from 1s. 3d. (500 gm. lots) to 1s. 9d. (10 gm.) per gm. and ACID TARTRATE, B.P., from 10d. to 1s. 2d.

AMIDOL.—Quotations for 1-cwt. lots are 20s. per lb.

AMIDOPYRIN. — Price per lb. is from 23s. 6d. to 25s. as to quantity.

AMMONIUM CARBONATE. — B.P. lump is £76 10s. per ton; POWDER, £80. BICARBONATE is £49 per ton, delivered U.K.

ANEURINE HYDROCHLORIDE. — Price per kilo is £38 5s.; 10-kilos, £38 2s. 6d.; 100-kilos, £38.

BARBITONE. — Rates per lb. for 7-lb. lots are 27s. The SODIUM derivative is 6d. per lb. more than the base.

BROMIDES. — Potassium B.P. crystals in 5-cwt. lots are 2s. 10½d. per lb.; 1-cwt., 2s. 11½d. per lb. Powder is 1½d. per lb. more. AMMONIUM is 3s. per lb. in 5-cwt. lots and SODIUM, 2s. 9½d. per lb.

CAFFEINE.—For 1-cwt. lots, ALKALOID, B.P. is 26s. 6d. per lb.; ANHYDROUS ALKALOID, 27s. 6d.; and CITRATE, 16s. 3d.

CALAMINE.—1-cwt. lots are 1s. 7d. per lb.; 10-cwt., 1s. 5½d.

CALCIUM CARBONATE. — B.P. powder is £26 per ton, ex store.

CALCIUM GLUCONATE. — Quantities of 3-cwt. and upwards are quoted at 4s. per lb.; 1-cwt. to 2-cwt., 4s. 1d.; smaller quantities, up to 4s. 4d. per lb.

CALCIUM PANTOTHENATE.—Price per kilo is £32 10s.

CALCIUM SUCCINATE. — Quotations are from 10s. 6d. to 12s. 6d. per lb., as to quantity. SUCCINIC ACID is from 10s. 6d. to 12s. 3d. per lb.

CHLORAL HYDRATE. — In 1-cwt. lots the price is from 3s. 10d. per lb. as to holder.

CHLOROCRESOL.—Pharmaceutical quality is quoted at 6s. 7d. per lb. for 1-cwt. lots.

CHLOROXYLENOL.—B.P. quality is 5s. 9d. per lb. for 1-cwt. lots, and 5s. 7d. for 10-cwt.

CINCHOPHEN.—1-cwt. lots are quoted at 21s. per lb.

CRESOL.—Price of B.P. quality from distillers is 7s. 9d. per gall. in 5-gall. lots.

CYCLOBARBITONE.—B.P.C. and CALCIUM DERIVATIVES in 1-cwt. lots are 65s. per lb.

DEXTROSE. — Rates are as follows:—MONOHYDRATE, B.P., 1-lb., 1s. 11½d.; 7-lb., 11s. 10d.; 28-lb., 43s.; free packages, less 12½ per cent. to wholesalers. In bulk, 1-ton lots, £90 ex works, ANHYDROUS, B.P., 7-lb., 14s.; 14-lb., 26s. 3d.; 28-lb., 49s. (terms as for monohydrate). 1-ton lots, £107 10s. ex warehouse.

DICOPHANE (DDT).—Prices are as follows:—1-cwt. lots, 3s. 1d. per lb.; 1-ton, 2s. 10d. Discount for larger quantities.

DIPHENAN.—Prices range from 55s. 3d. (56-lb) to 63s. (1-lb.) per lb.

ERGOTOXINE ETHANESULPHONATE.—Price per gm. for B.P.C. (1949) is: 1 gm., 168s. 9d.; 10 gm., 155s. 3d.

FORMALDEHYDE. — B.P. solution is 37s. 3d. per cwt. for 4-cwt. lots including free drums.

GUAIACOLS. — LIQUID, B.P., is 16s. 3d. per lb. for 28-lb. lots; CRYSTALS, 16s. 9d.; CARBONATE, 18s. 3d.

HYDRAZINE HYDRATE.—Price per ton is £153 for the 10 per cent. (w/v) solution and £33 for the 2½ per cent.

HYDROQUINONE.—Quotations for 1-cwt. lots are 10s. 6d. per lb. For smaller quantities, viz., 28-lb., 10s. 9d.; 14-lb., 11s. 6d.; 7-lb., 12s.

MAGNESIUM SULPHATE.—Quotations for B.P. in minimum 1-ton lots vary between £17 10s. and £20 per ton according to size of crystal and manufacturer. Exsiccated is £34 per ton.

PHENACETIN. — In 5-cwt. lots makers' price is now 6s. 8d. per lb., 1-cwt., 6s. 9d.

PHENAZONE. — Price is from 14s. 6d. to 15s. per lb. as to quantity.

POTASSIUM BICARBONATE.—B.P. powder is 110s. per cwt. for 1–4-cwt. lots and 105s. per cwt. for 5-cwt. and over.

POTASSIUM NITRATE. — Pharmacopœial quality is 145s. per cwt. (crystal, granular or powder) and commercial, 90s.

POTASSIUM PERMANGANATE. — Rate for B.P. material for 1-cwt. lots is 1s. 9d. per lb., and for technical, 183s. 6d. per cwt.

SODIUM PERBORATE. — Prices (per cwt.) are 142s. 9d. in 1-cwt. kegs: 135s. 3d. in 1-cwt. bags for B.P.C. (minimum 10 per cent. available oxygen). Other strengths pro rata. The PERBORATE MONOHYDRATE testing 15 per cent. available oxygen is 305s. 3d. per cwt.

SODIUM PERCARBONATE.—1-cwt. kegs are about 163s. (bags 7s. 6d. lower) for minimum 12½ per cent. available oxygen.

SODIUM PHOSPHATE. — B.P. powder is 125s. per cwt.

SULPHATHIAZOLE. — Price (per lb.) for 1-cwt. lots is 21s. 9d.

THEOBROMINE. — ALKALOID is 40s. 6d. per lb. and the SODIUM SALICYLATE, 24s. 3d. for 1-cwt. lots.

VITAMIN E (synthetic). — TOCOPHERYL ACETATE, B.P.C., 10 gm. to 100 gm., 1s. 6d. per gm.; 100 gm. to 1 kilo, 1s. 3d. per gm., 1 kilo and under 10 kilos, £60 per kilo. The equivalent rates for racemic α TOCOPHEROL (unesterified) are 1s. 8d. per gm.; 1s. 5d. per gm. and £66 per kilo respectively.

ZINC CHLORIDE. — B.P.C., cake from 4s. 6d. to 4s. 10d. per lb.; sticks from 5s. 10d. to 6s. 2d. per lb. TECHNICAL, 135s. per cwt.

ZINC PEROXIDE. — Price (per lb.) for 1-cwt. lots of B.P. is 5s. 3d.

Crude Drugs

ACONITE. — Spot supplies of Spanish *napellus* are 4s. per lb., duty paid.

AGAR. — *Kobé* No. 1 on the spot is unchanged at 16s. 9d. per lb., duty paid. Shipment, 14s. 3d., c.i.f., new-crop.

ALOES. — Prime Cape spot is 305s. per cwt., nominal. For shipment, 282s. 6d., c.i.f.

ANISEED (STAR).—Chinese is 155s. per cwt., in bond and 140s., c.i.f.

ANTIMONY. —' English 99·6 per cent. is £222 10s.; 99 per cent., £210 per ton.

ARECA NUTS. — Quotations are about 40s. per cwt. for Ceylon material on the spot. Shipment, 25s., c.i.f.

BISMUTH METAL.—Minimum rate is 16s. per lb.

BUCHU.—Limited offers of new-crop rounds at 3s. 9d. per lb., c.i.f.; afloat, 4s., c.i.f., and spot, 4s. 6d.

CAMPHOR. — B.P. POWDER is 8s. 3d., per lb., duty paid. Offers for shipment are at 6s. 6d. per lb., c.i.f. TABLETS, ¼-oz. are 7s. 2d., in bond. Synthetic is 4s. 6d.

CAPSICUMS.—East African on stalk are 160s. per cwt. spot. Abyssinian, off stalk, 205s., spot, duty paid.

CARDAMOMS. — Aleppy greens on the spot are 13s. 6d. per lb.; March shipment, 11s. 9d., c.i.f. Seed is 16s. 6d., c.i.f., and 21s., spot.

CASSIA BARK. — Whole on the spot is about 90s. per cwt., in bond, and for forward delivery, 81s. 6d., c.i.f. Broken 75s., in bond, and 72s. 6d., c.i.f.

CHAMOMILE. — Belgian flowers are 5s. per lb. on the spot.

CHERRY BARK. — Thin natural is from 1s. 8d. per lb,. duty paid, and rossed, 2s. 1d., on the spot.

CINCHONA. — A parcel of Tanganyika druggists' bark (7·79 per cent. total alkaloids is offered on the spot at 1s. 11d. per lb.

COCILLANA. — Value of bark is 2s. 9d. per lb. on the spot.

GALANGAL.—Root is quoted at 70s. per cwt., c.i.f., for shipment, and spot, 85s. nominal.

GENTIAN.—French natural on the spot is from 122s. 6d. per cwt. No offers from growers.

GINGER.—African is quoted on the spot at 215s. per cwt.; new-crop for shipment, 200s., c.i.f. Jamaican No. 3 is now 305s. on the spot and new-crop for shipment, 280s., c.i.f.

GUM ACACIA. — Kordofan cleaned sorts on the spot are quoted at 137s. 6d. per cwt.; afloat, 125s., c.i.f.; March–April, 125s., c.i.f.

IPECACUANHA. — Quiet. Limited spot offers included Colombian at 65s. per lb.; Nicaraguan, 70s. and Costa Rican, 72s. 6d. Colombian for shipment, 64s. 6d., c.i.f.

KARAYA. — No. 1 gum on the spot is quoted at 325s. per cwt., and No. 2 at 210s.

KOLA NUTS. — African halves continue short on the spot at about 6d. per lb. Jamaican are offered at 7d.

LIQUORICE. — Firm. Stocks of natural whole root are short on the spot. Quotations for Anatolian are now 75s. per cwt., with Russian at 70s.; Block juice quotations are 210s. per cwt. on the spot. Italian stick from 310s. to 475s. per cwt., duty paid.

MACE. — West Indian pale blade is 9s. 6d. per lb.; shipment, 8s. 10d., c.i.f.

MENTHOL.—Firmer. Chinese is 61s. per lb., duty paid and 59s. 6d. both in bond and c.i.f. Brazilian is 58s., in bond; no c.i.f. offers.

MERCURY. — Nominal spot value is slightly easier at £109 per flask of 76-lb. ex-warehouse.

PEPPER.—Quiet. White Sarawak on spot is offering at 4s. 3d. per lb.; afloat parcels are 3s. 11d. to 4s. 1d., c.i.f. Black Sarawak is 2s. 11½d., spot; afloat, 2s. 8d. to 2s. 10½d., c.i.f. Black Malabar has been sold on spot at 355s. per cwt. and for April shipment, 325s. per cwt., c.i.f., is quoted.

PIMENTO. — Spot is quoted at about 6s. 8d. per lb.

QUASSIA. — Spot quotations for chips are at about 45s.; April–May shipment is about 32s. 6d. per cwt.

RHUBARB. — Chinese is scarce on the spot. Quotations are from 7s. 9d. per lb. for slightly wormy to 9s. 6d., duty paid, for two-thirds pinky.

SEEDS. — (Per cwt.). ANISE.—Tunisian offering at 280s., spot London, duty paid. CARAWAY.—Dutch is 167s. 6d., duty paid. Little business passing. CELERY.—Indian is quiet with sellers quoting reduced price of 145s. on spot. CORIANDER.—Quiet. Spot, Morocco is 77s. 6d., duty paid; Rumanian, 65s., duty paid. Morocco for shipment is quoted at 57s., c.i.f. CUMIN.—Small business passing. Spot, Cyprian, 125s.; Morocco, 125s., duty paid. Shipment, Cyprian, 107s. 6d., c.i.f.; Morocco a little easier at 106s., c.i.f. DILL.—Indian sold on spot at 87s. 6d. FENNEL.—Indian sold at 87s. 6d. spot. Chinese quoted at 92s. 6d., duty paid. FENUGREEK.—Dearer. Morocco now quoted at 62s. 6d., duty paid. MUSTARD. — English 75s. to 87s. 6d., according to quality.

SENEGA. — Scarce. Spot value is now 25s. 6d. per lb.; no shipment offers.

TURMERIC. — Rajapore is unchanged at 205s. per cwt. on the spot. Madras finger (new-crop) for April–May shipment is firmer at 115s., c.i.f.

WAXES. — BEES'—Scarce on the spot. Dar-es-Salaam, spot cleared; shipment, 522s. 6d., c.i.f.; Sudanese, 540s., duty paid and 500s., c.i.f.; Abyssinian, spot cleared, shipment, 495s., c.i.f., duty paid nominal and 490s., c.i.f. CANDELILLA.—Spot is 570s. per cwt. Forward, 570s., c.i.f. CARNAUBA.—Prime yellow on the spot is 825s. per cwt., shipment, 785s., c.i.f.; fatty grey is 525s. on the spot; shipment, 490s., c.i.f. MONTAN.—Reibeck, crude, no spot offers. SPERMACETI.—Case lots are about 2s. per lb.

Essential and Expressed Oils

ANGELICA SEED.—Price per lb. is now quoted at 260s.

ANISE.—Chinese is quoted at 19s. 6d. per lb. on the spot and 20s., c.i.f.

CAJUPUT.—Scarce. Spot supplies are 15s. 6d. per lb. for 1-cwt. lots.

CARAWAY.—English-distilled is offered at 55s. and imported oil at 32s. 6d. per lb.

CARDAMOM.—Price per lb. is from 360s. for English distilled and 295s. for imported.

CHENOPODIUM.—1-cwt. lots are 43s. per lb.

CITRONELLA. — Ceylon is unchanged at 7s. 3d. per lb. on the spot, but firmer for shipment at 6s. 10½d., c.i.f. Formosan, spot, is offered at 11s. 6d., while forward is 11s. 9d., c.i.f. Java is 11s. 9d., in bond, and 11s. 7½d., c.i.f.

CLOVE.—Madagascar leaf is 12s. per lb., duty paid and 10s., c.i.f., for shipment. Redistilled stem oil from 19s.; distilled bud oil, English, from 35s. to 40s.; imported, 18s. 6d. to 19s. 6d.

COD-LIVER.—B.P. is 11s. 6d. per gall. in charged returnable drums. Veterinary is from 9s. 6d. per gall.

DILL. — B.P. English-distilled oil is quoted at 60s. per lb. Imported oils are scarce at 36s. per lb.

EUCALYPTUS.—Australian 70 to 75 per cent. eucalyptol on the spot is 5s. 6d. per lb.; 80 to 85 per cent., 6s. Spanish, 70 to 75 per cent., 5s., duty paid.

FENNEL.—Spanish sweet on the spot is quoted from 9s. 6d. per lb.

GARLIC.—English is 55s. per oz.

GERANIUM.—Bourbon is 87s. 6d. per lb. on the spot and Algerian, 76s. 6d.

GINGER. — English-distilled oil is 160s. per lb. nominal, with cheaper grades down to 115s. Imported oils are available at from 135s. 6d. per lb.

GINGERGRASS.—Offers are from 35s. to 36s. per lb.

LAVENDER. — Scarce. 38–40 per cent. linalol on the spot is 90s. per lb. 40–42 per cent., 100s., nominal.

LEMON. — B.P. (4 per cent. citral) on the spot is 38s. to 40s. per lb. Sicilian hand pressed, 45s. to 47s. 6d., spot; 44s., c.i.f. Californian, 28s. 6d. to 43s. 7½d., c.i.f., as to quality, subject to licence.

LEMONGRASS.—Easier. Spot is quoted at 12s. 9d. per lb. and shipment at 12s. 3d., c.i.f.

ORANGE.—Quotations include: Florida, 4s. 6d.; Californian, 6s. 2d.; West African, 11s. 6d. to 14s. For shipment, Californian sweet, 6s., c.i.f., and cold-pressed, U.S.P., 9s. 3d., c.i.f., subject to licence.

PEPPERMINT. — *Arvensis:* Chinese per lb. is 41s. 6d., spot and , c.i.f. Brazilian, 32s. 6d., spot, and 31s. 6d., c.i.f. (April–May). Italian " Mitcham " type oil is from 72s. 6d. to 80s., spot, and American 60s. to 65s.

PIMENTO. — English-distilled berry is 165s. per lb. with imported at 67s. 6d. Rectified leaf (imported), 27s. 6d. per lb.

PINE.—*Pumilionis* on the spot is from 16s. per lb.; *sylvestris,* 9s. Siberian (*abietis*), 11s.

ROSEMARY.—Spanish oil on the spot is from 5s. 3d. to 5s. 9d. per lb., duty paid, as to quality.

RUE.—Spot offers are from 14s. per lb.

SAGE. — Spanish is offered at from 9s. 3d. per lb. and Dalmation at 50s., duty paid.

SPEARMINT. — Offers of U.S.P. quality vary between 33s. 6d. and 38s. per lb. on the spot. Forward offers are slightly firmer. Dutch quoted at 32s. 6d., duty paid.

TANGERINE.—Good quality is scarce on the spot at 48s. per lb.

THYME.—B.P.C. is about 9s. 6d. per lb.

TITREE. — Small lots are offered at 13s. 6d. per lb.

VETIVERT.—Bourbon in original drums on the spot is 90s. per lb.

UNITED STATES REPORT

NEW YORK, MARCH 29: In the first price change since December 1950, NICOTINIC ACID was reduced to eight dollars per kilo, down one dollar. Natural MENTHOL was quoted at $8·80 per lb. (up five cents). Higher per lb. among CRUDE DRUGS were Siam BENZOIN number three at $4·00 (up 20 cents); KOLA NUTS, 9½ cents (two cents) and whole HYDRASTIS, $2·55 (25 cents). Lower per lb. were Bourbon VANILLA BEANS at $8·75 (down one dollar); COPAIBA BALSAM, 85 cents (five cents); PERU BALSAM $1·35 (down 10 cents); and QUINCE SEED, $1·35 (15 cents).

Higher per lb. among AROMATICS and ESSENTIAL OILS were SAFFROL at $1·75 (up 15 cents); Formosan CITRONELLA, $2·00 (15 cents); CLOVE LEAF, $1·60 (up 10 cents); and imported MANDARIN, $7·25 (50 cents). Lower per lb. were CEDARWOOD at $1·20 (down 10 cents); Californian LEMON, $4·85 (15 cents); Italian LEMON, $5·25 (50 cents); Ceylon CITRONELLA, $1·05 (five cents).

BRAZILIAN PRODUCTION
Drugs and oils statistics

THE Statistical Service of the Ministry of Agriculture estimates Brazil's annual production, in metric tons, as follows: Copaiba balsam, 96; sassafras oil, 200; ouricuri wax, 2,400; oiticica, 30,000; peppermint oil, in Sao Paulo only, 116. Amazon producers of bois de rose have offered this year's entire output, estimated at 300 tons, to southern importers at 260 cruzeiros per kilo, say 117·11 per lb. This is considerably less than the amount they would receive in cruzeiros for exports to the United Kingdom at f.o.b. prices corresponding to 36 shillings per lb., since a new export subsidy of 88·76 per £ means that sterling bills would be converted at 140·168 cruzeiros.

Annual production of carnauba wax is of the order of 12,000 tons; exports averaged 759·5 tons monthly in 1954 at an average f.o.b. price of U.S. 83 cents per lb. Since January last exporters have been paid a fixed rate of 103·768 cruzeiros for sterling bills, as against varying rates, ranging from 103 to 109, during the last four months of 1954.

Ceara producers complain that by fixing the subsidy for carnauba at 52·36 and that for ouricuri at 88·76 the Government is encouraging fraud. The Customs discovered last year that carnauba was being shipped as ouricuri to the U.S., where the importer credited the difference in price to the Brazilian exporter for black market transactions. It is reported that a plague of locusts, which has been ravaging the carnauba forests in the River Acu region, has been stamped out and that the trees are recovering rapidly.

The persistent rumour that Quimica Bayer Brasileira is to be sold to a German group has been officially denied. The local subsidiary, which was taken over by the Brazilian government on the outbreak of war, is now being wound up.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Monday, April 4

READING BRANCH, PHARMACEUTICAL SOCIETY, Board room, Thorn Street, Reading, at 7.45 p.m. "Members' Night."

WEST KENT BRANCH, PHARMACEUTICAL SOCIETY, Bell Hotel, Bromley, at 8 p.m. Address by Dr. F. E. Camps, M.D., M.B., B.S., M.R.C.S., L.R.C.P. (pathologist to the Home Office).

Tuesday, April 5

BRADFORD BRANCH, PHARMACEUTICAL SOCIETY, Victoria Hotel, at 7.45 p.m. Annual meeting.

NORWICH BRANCH, PHARMACEUTICAL SOCIETY, assembly house, Theatre Street, Norwich, at 7.30 p.m. Annual meeting.

SOUTH-EAST LONDON CHEMISTS' ASSOCIATION and SOUTH-EAST METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY, New Cross Inn, 323 New Cross Road, London, S.E.14, at 8 p.m. Miss Evans (Yardley & Co., Ltd.) on "This Beauty Business."

Thursday, April 7

BOURNEMOUTH BRANCH, PHARMACEUTICAL SOCIETY, Grand Hotel, Bournemouth, at 7.30 p.m. Mr. S. A. Richardson on "From Pharmacy to Death-watch Beetles."

EPSOM AND SUTTON BRANCH, PHARMACEUTICAL SOCIETY, Spread Eagle Hotel, Epsom, at 7.45 p.m. Annual meeting.

EXETER BRANCH, PHARMACEUTICAL SOCIETY, The Imperial Hotel, Barnstaple, at 7.30 p.m. "Members' Night."

Friday, April 8

LONDON PHARMACY RAMBLERS, Henley Station, 11 a.m. For ramble to the Western Chilterns. Train leaves Paddington at 9.35 a.m.

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," March 16

For all goods (3)

SCHIMMEL BOEHM, B734,416, by Schimmel Boehm, Ltd., London, W.1. EVODE, 738,138, by Evode, Ltd., Stafford.

For soaps (3)

SUBMARINE, 738,697, by J. C. & J. Field, Ltd., Amersham, Bucks.

For pharmaceutical preparations and products for human use (5)

WYETH, 725,975, by John Wyeth & Bro., Ltd., London, N.16.

For medicinal saline preparations, analgesics and medicated ointments (5)

PROMOR, 732,218, by Koray, Ltd., Bridgend, Glam.

For pharmaceutical preparations for human use, medical and surgical plasters, materials prepared for bandaging, bandages and surgical dressings, deodorants, disinfectants, insecticides and medicated toilet paper (5)

PRITCHARDS JUNIOR, 734,440, by Pritchards, Ltd., Cheadle, Ches.

For veterinary preparations, fungicides and preparations for killing weeds and destroying vermin (5)

CUNILATE, 735,347, by Cuprinol, Ltd., London, W.1.

For antibiotics being pharmaceutical preparations (5)

PANMYCIN, 735,286, by Upjohn of England, Ltd., London, W.1.

For pharmaceutical preparations and substances for human and veterinary use (5)

DURASED, 735,792, by Henry Wild, Blackpool.

For insecticides (5)

BUZ, 736,094, by General Engineering (Holloware), Ltd., London, W.1.

For all goods but not including medicated wine or any goods of the same description as medicated wine (5)

EDINA, B736,383, by Duncan McGlashan, Ltd., Edinburgh.

For medicines containing mistletoe extracts (5)

ASGOVISCUM, 736,418, by Rhein-Chemie, G.m.b.H., Heidelberg, Germany

For anthelmintic veterinary preparations (5)

ANTOBAN, 736,623, by the Wellcome Foundation, Ltd., London, N.W.1.

For pharmaceutical preparations for human use (5)

HEPASTAB FORTE, 736,926, by Boots Pure Drug Co., Ltd., Nottingham.

For pharmaceutical preparations containing aspirin (5)

DURASPRIN, 737,199, by Henry Wild, Blackpool.

For veterinary preparations and substances (5)

HELMEVET, 737,612, by Allen & Hanburys, Ltd., London, E.2.

For preparations for killing weeds and destroying vermin, insecticides, larvicides and fungicides and insecticide paper (5)

ENDREX, 737,764, by Shell Chemicals, Ltd., London, E.C.3.

For alloys of precious metal prepared for use in dentistry (5)

SOLILA, 738,155, by Amalgamated Dental Co., Ltd., London, W.1.

For vermin-exterminating preparations (5)

PIVALE, 738,356, by Motomco Incorporated, New York, U.S.A.

LOCAL OFFICERS

PHARMACEUTICAL SOCIETY

Dundee and Eastern Scottish Branch.—*Chairman*, Mr. M. S. Maconochie; *Vice-chairman*, Mr. J. Jolly; *Treasurer*, Miss C. M. Thomson; *Secretary*, Mr. D. C. C. Wallace, 126 Hilltown, Dundee.

GUILD OF PUBLIC PHARMACISTS

Manchester Branch. — *Chairman*, Mr. K. A. Hume; *Vice-chairman*, Mr. J. Platt; *Treasurer*, Mr. W. D. Chatterton; *Secretary*, Mr. C. Raine, Withington Hospital, Manchester, 20.

C. & D. WEEKLY LIST OF PRICES

A=Advanced; R=Reduced; I.R.P.=Inclusive Retail Price; *=Tax 25 per cent.; †=Tax 75 per cent.

CUXSON, GERRARD & CO., LTD. (from March 28)

		Doz.	I.R.P.	
Sylvia sanitary towels				
	size 0 12	18 7		*A*
	size 1 12	20 9		*A*
	size 2 12	23 11		*A*
	size 3 12	27 10		*A*
Altex sanitary towels	6	9 3		*A*
	12	18 0		*A*
Solvex sanitary towels	6	9 5		*A*
	12	18 9		*A*

For quantities of 7 gross and over sixpence is allowed per gross towels so that net prices for those quantities are unaltered.

NEW PRODUCTS AND PACKS

AYRTON, SAUNDERS & CO., LTD.
Aristocrat cream† 6 9 — 1 4

BARBER ELECTRICAL SERVICES, LTD.
Barber prescription health lamp, model 465 — 500 0

THE CROOKES LABORATORIES, LTD.
Vitamin A capsules
50,000 i.u. 25 — 6 0
100 — 22 6
500 — 101 3

DIXOR, LTD.
Velpuff cream powder compact† 18 8 — 3 6

EVANS MEDICAL SUPPLIES, LTD.
Nobecutane spray container — 36 0

FORD, JACKSON & CO. (SALES), LTD.
Anita's hair glitter† 10 8 — 2 0

HALEX DIVISION OF THE BRITISH XYLONITE CO., LTD.
Child's mealtime set — 4 6

KEEN, ROBINSON & CO., LTD.
Robinade 9 9 — 1 0

MENLEY & JAMES, LTD.
Eskacillin 300 1½ fl. oz. 120 0 — 13 4

REMINGTON RAND, LTD.
New Contour regular electric dry shaver*
model 652–210 — 145 0
New Contour dual volt electric dry shaver*
model 652–50 — 157 4

ROCHE PRODUCTS, LTD.
Gantrisin ampoules
3 x 2 gm. (5 c.c.) — 8 0
25 x 2 gm. (5 c.c.) — 52 6

P.A.T.A. PROTECTED LIST

(Prices notified this week by the Proprietary Articles Trade Association.)

J. C. ENO, LTD. (Agents: **MACLEANS, LTD.**) (from April 1)

Eno's Fruit Salt*	22 2	2 9	*A*
	39 8	4 11	*A*

SCOTT & TURNER, LTD. (additions)

Perminex DDT	12 0	1 6
Perminex BHC	12 0	1 6
Droxalin indigestion tablets*	30 17 0	2 6

DELETIONS

HEATHER PARK LABORATORIES, LTD.
Glucozime

STEMCO, LTD.
Daggett and Ramsdell creams; all Flit preparations; Semprolia; and Stemcol.

Make their loss your gain

The message that 'Saxin' provides them with the sweetness of sugar without adding to their weight, will appeal forcefully to all women. It is shortly to appear in Good Housekeeping, Woman's Own, Woman, Everywoman, My Home, Wife and Home, Home Notes, Home Chat, Woman's Weekly and Woman's Illustrated. The advertisement will be accompanied by a coupon offering a free sample. The replacement of sugar by 'Saxin' helps the slim to remain so, the overweight to regain a slimmer line. Unlike ordinary saccharin, it leaves no unpleasant after-taste. It is sold only by pharmacists. A counter or window-display will therefore ensure that you gain as you help your customers to lose unwanted weight.

"Sugar?"

"I take 'SAXIN'
—it's better for my figure, and just as sweet!"



"But doesn't it leave a horrid bitter taste?"

"Oh no! 'Saxin' is not like other sugar substitutes—it's the sweetener with no other taste! One tablet is equal to a large lump of sugar—without, of course, any effect on your waistline! I use 'Saxin' in everything... tea, coffee, cocoa—even for cookihg,'too!"

Yes, it's true! Life can still be sweet, without waistline worries, if you use 'Saxin'... nothing but sweetness! But prove it yourself—without expense or obligation. Send now for your *free* sample of 'Saxin', and some cooking hints specially prepared by Helen Burke.

POST OFF THIS COUPON for a free sample of 'Saxin' just as soon as you can!

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ADDRESS .....

..... GH

Post in unsealed envelope, 1½d. stamp, to Burroughs Wellcome & Co., 183, Euston Road, London, N.W.1.

A BURROUGHS WELLCOME & CO. PRODUCT

'SAXIN' BRAND

SACCHARIN SODIUM

BURROUGHS WELLCOME & CO. *(The Wellcome Foundation Ltd.)* LONDON

There's no 'off-season' for



BOX'S

INDIGESTION PILLS

The Old Established

Family Remedy

P.A.T.A. Retail Prices:
1/5, 3/4, 5/5, 13/4, 24/2 (incl. tax)

W. H. BOX, 161 KING STREET, PLYMOUTH

"ZORBO" (REG D)

Superfine Cotton Wool

This is a very old Trade Mark of ours and a product for many years in use by the Medical Profession and all those requiring a First Class Superfine Cotton Wool. Now packed in attractive white Cartons in various sizes and would be readily acceptable to your more exacting customers.

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Of course this is just one of our Manufactures. We also supply in Cartons all BPC Dressings in Cotton Wool, Lint and Gauze.

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Our Products are obtainable from Wholesalers, but should you have difficulty a line to us will have prompt attention.

ROBERT BAILEY & SON, LTD.
SURGICAL DRESSINGS MANUFACTURERS
DYSART STREET, GREAT MOOR, STOCKPORT
Phone: STEPPING HILL 3006/7 Grams: "UNDISPUTED" STOCKPORT

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PRICE DOWN
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A quick selling line with a generous profit margin

RETAILS AT 6½D per can

PRICES ON APPLICATION

C. WILES LTD. WOODMANSEY, BEVERLEY, E. YORKS

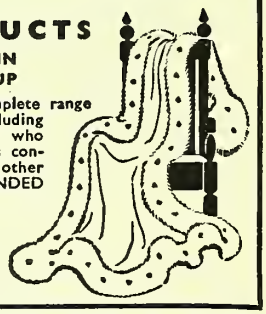
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BEAUTY PRODUCTS

THE SAFETY FACTOR IN EVERY DAY MAKE-UP

Queen beauty products form a complete range of toilet and beauty preparations, including lipsticks, specially for those women who have sensitive skins. Queen products contain no orris in any form, nor any other skin irritants AND ARE RECOMMENDED BY THE MEDICAL PROFESSION.



Obtainable from your Wholesaler or direct from ...

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TANNIC ACID

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Increased Demand....

BAUMOL SOAP

ORDER NOW!



BAUMOL Soap has been recommended by members of the medical and pharmaceutical professions for the protection of sensitive skins since 1892.

Retail 1s. 3d. per tablet. Trade 10/- per doz. plus Purchase Tax.

BAUMOL Soap is free from caustic alkali

DUNCAN, FLOCKHART & CO. LTD.

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GUIDANCE...

Guidance on methods of family planning is often welcome and does much to remove anxiety and promote a patient's mental and physical well-being. The modern contraceptive, GYNOMIN, inspires confidence with its high spermicidal efficiency. GYNOMIN is absolutely harmless to health, non-greasy and clean in application, and keeps perfectly in all climates.

SPECIAL QUANTITY DISCOUNTS MEAN EXTRA PROFITS

3 doz. tubes at 31/6 per doz. less 5%
6 „ „ „ „ „ 7½%
12 „ „ „ „ „ 12½%
Retail price 3/6 per tube of 12 tablets.

Order from your wholesaler.

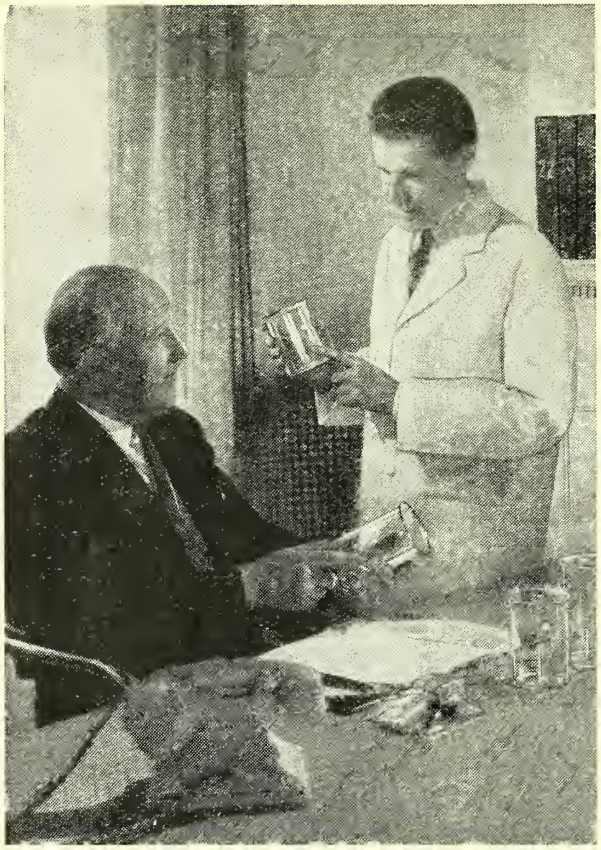
Regular medical national publicity will bring increasing demands to your pharmacy. Medical literature available to pharmacists on request.

Approved by the Family Planning Association for use in conjunction with a mechanical barrier.

GYNOMIN TRADE MARK

The scientifically balanced antiseptic deodorant contraceptive—in tablet form.

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'I like these Pyrex beakers because...'

'they are so much stronger, and last so much longer'
'How is that?'
'Well you see, Sir, because of their low coefficient of expansion, they can be made of much thicker glass. Wafer-thin beakers are so easily broken that we save pounds a year in the lab. by using PYREX!'
Yes indeed! 'PYREX' borosilicate glass beakers and flasks are robust and shock-resisting. Heat and acid-resisting too. Coefficient of expansion $3.2x10^{-6}$ . . . almost nothing.

'PYREX' brand laboratory glassware
is made only by James A. Jobling & Co. Ltd.,
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MADE IN ENGLAND PYREX REGD TRADE MARK

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Wear Glass Works Sunderland

THE ONLY MAKERS OF 'PYREX' BRAND GLASS IN THE UNITED KINGDOM

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SINCE 1839
AMERICAN OILS
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PEPPERMINT
(Menthae Piperitae)
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THE
H. G. HOTCHKISS ESSENTIAL OIL CO.
Established 1839
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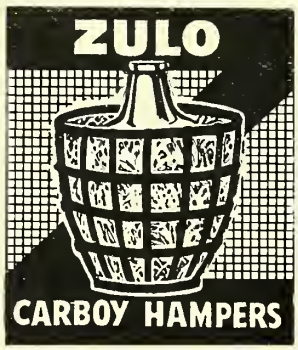
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OVER 150 YEARS REPUTATION
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CARBOYS
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SAFETY CRATES
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new beautifully designed show card size 23″ x 17½″ in 6 bright colours?

Supplied with two side panels each 17″x10½″ the whole making an attractive window display, or can be used separately as counter show cards.

NOW IS THE TIME

to make a window display and ensure a steady flow of repeat orders for

"AUTUMN SUN,"

the Malt and Oil with the taking flavour.

The complete set is FREE; ask our representative or write direct, sent post free.

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A RIDDELL customer is a regular client, and our products are known and appreciated by ASTHMA sufferers the world over.

INHALERS:

PNEUMOSTAT Electric Inhaler (Patent).
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PRODUCTS:

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Riddell House, 10-14, Dunbridge Street, London, E.2

—AND—

11 MANSFIELD CHAMBERS, ST. ANN'S SQUARE, MANCHESTER, 2 *TEL: BLACKFRIARS 2894*



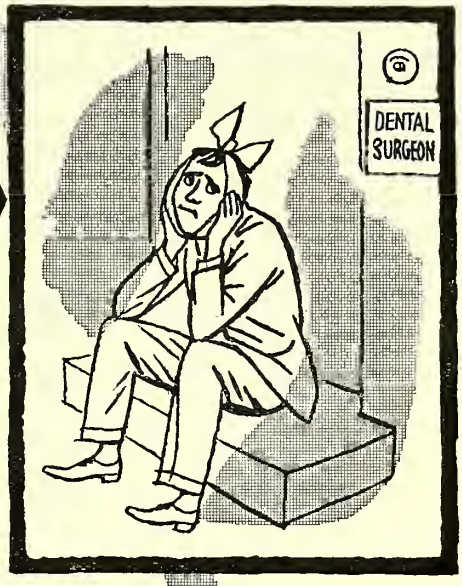
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PASTILLES
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are always available in ample supply.

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SURGICAL ELASTIC HOSIERY
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CLOVE OIL is an important component of toothpastes and dental preparations.

In combination with other oils, it is used for external application in the treatment of whooping cough and bronchitis; and internally, in cases of colic and gripe. It also serves as a preservative for soaps and printing ink.

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PRODUCT	PACK	RETAIL PRICE
Alimex A palatable fluid preparation of aluminium hydroxide and magnesium hydroxide.	8 fl. oz. 80 fl. oz. *(dispensing pack)*	2/1½ + 4½d. *P. Tax* 20/–
Fenox Nasal Drops Phenylephrine and naphazoline in a non-oily viscous vehicle of adjusted *pH* and tonicity.	½ fl. oz. *dropper bottle*	2/6
Ocusol Eye Drops A unique combination of sulphacetamide and zinc sulphate in a buffered viscous vehicle.	½ fl. oz. *dropper bottle*	3/–
Blandlax An oil free laxative containing sodium carboxymethylcellulose and magnesium hydroxide.	8 fl. oz. 16 fl. oz. 80 fl. oz.	1/11+ 4d.*P.Tax* 3/2½+ 6½d.*P.Tax* 12/7½+2/1½d.*P.Tax*
Tusana A palatable cough linctus combining in a demulcent base the sedative effects of codeine, with the properties of cocillana and other dependable expectorants.	4 fl. oz. 20 fl. oz. *(dispensing pack)* 80 fl. oz. *(dispensing pack)*	2/9½ + 5½d. *P. Tax* 12/6 45/–
'Viules' Single-dose injections in disposable cartridges.	Details of range and prices on application.	

Prices subject to usual trade discounts.

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The public likes something reliable, something with dependable high quality. A faithful following is the public's response to trustworthy products that give real satisfaction. Such is the popularity of

CUTICURA SOAP
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There is a growing circle of discriminating people who appreciate high quality and insist on these soothing, protective, fragrant, mildly medicated Preparations, for care of the skin. Just display one each of these eye-catching firm family favourites in your attractive window, and make sure this steady all-the-year-round business comes your way.

CUTICURA SOAPS, OINTMENTS AND SHAVING STICKS HAVE ALWAYS CONTAINED CHLOROPHYLL

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If one green bottle...

should accidentally fall, or the whole ten, there would be no pieces to sweep up . . . because all Poly-Tainers are *unbreakable*. They carry creams, lotions, powders and chemicals in rigid or pliable Polythene . . . featherweight, airtight, acid resistant. We hold the world's largest range of stock moulds, all shapes, colours and sizes from ½ ounce to 15 gallons. Many world famous organisations use them. If you require a *special* Poly-Tainer we will make it for you. Our Design and Consultation Service is at *your* service. All "label" details can be embossed or printed direct by a new permanent process, in the colour you specify. That's **Poly-Tainer!**

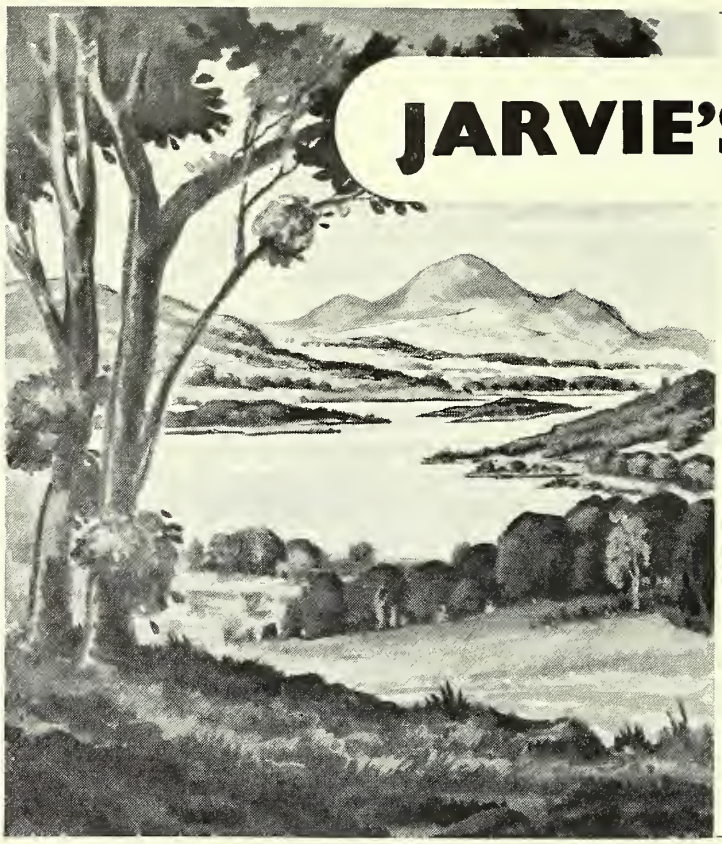


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Featherweight unbreakable leakproof containers.

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Look for the name on the bottom.

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Only the clear waters of Scottish Lochs are used in the crystallization of Jarvie's Quinine Salts

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SCOTIA CHEMICAL WORKS
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Perfectly Harmless

Keep it DARK *with* SHADEINE

—Your SALES are assured if you stock SHADEINE!

Still the best hair tint, in all natural shades. Stocked by all wholesalers. Trade prices—1 oz. 18/- per doz., 2 oz. 29/7 per doz. Purchase Tax 75%. Retail Prices 3/1½ and 5/2 per bottle respectively. Also the new GOLDEN SHADEINE for lightening mousey hair, 2 oz. 18/- per doz. Purchase Tax 75%. Retail Price 3/1½ per bottle.

THE SHADEINE COMPANY
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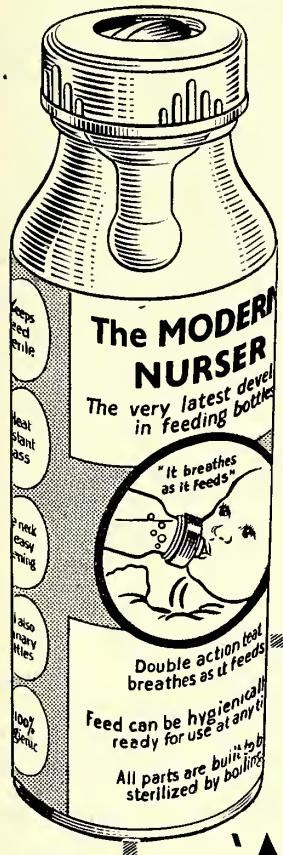
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The latest development in bottle feeding



THE very latest development in feeding bottles, the Cannon 'Modern' Nurser "breathes as it feeds". Fitted with the famous 'Modern' Teat, both the bottle cap and teat screw down into place allowing air to enter through the specially designed flange.

The Nurser is safe and sterile — always ready for the feed. The teat is simply inverted into the neck of the bottle and the cap screwed firmly down—the feed will remain sterile until required.

When baby is ready, the feed is warmed by placing the nurser into hot water; then the teat is snapped into position and the 'Nurser' is ready for feeding.

These important points have ensured the success of the 'MODERN' NURSER



KEEPS FEED STERILE
Hygienic plastic cap and disc keep feed and teat safe from infection.

SPECIAL 'MODERN' NURSER TEAT
With ribbed flange for feed control, also fits ordinary type bottles.

CALIBRATED BOTTLE
Marked in ozs. and ccs. Also available in heat-resistant glass.

WIDE NECK, EASY CLEANING
Allowing the teat to be inverted and sealed hygienically for storage and travelling.

'IT BREATHES AS IT FEEDS'
Controlled feeding is ensured by the special valve flange which allows air to enter into the bottle.

EXTRA TEATS
The special teat for the 'Modern' Nurser is available separately. Retail price 8d.

ATTRACTIVE PACK—FULL DIRECTIONS
The 'MODERN' NURSER is complete with clear glass bottle and calibrations, in attractive blue and pink cardboard sleeve, special 'MODERN' Nurser Teat, plastic cap and sealing disc, with fully illustrated directions for use.

The 'MODERN' NURSER

Retails at 2/3 each, also in heat-resistant glass at 3/6 each *FROM YOUR USUAL WHOLESALER*

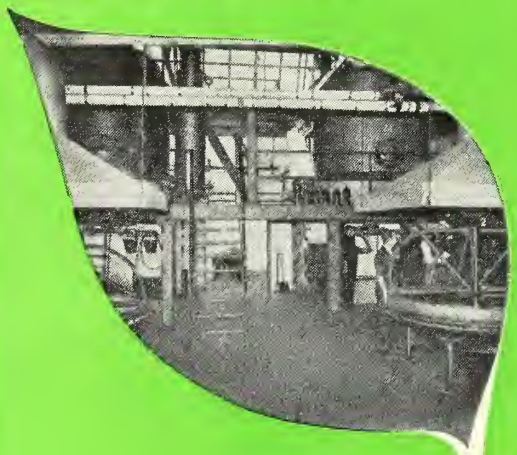
CANNON RUBBER MANUFACTURERS LTD Ashley Road, Tottenham, London N17

Let RANSOM'S

process your own raw materials—

ROOTS, BARKS, LEAVES FLOWERS, SEEDS, ETC.





In addition to processing the medicinal plants grown on their own farm, Ransoms are meeting an increasing demand from the pharmaceutical and allied industries for the extraction or other treatment of raw materials such as roots, barks, leaves, flowers, seeds, etc., supplied by customers themselves. Ransom's experience in processing medicinal plants for over a century places them in a unique position for assisting those in the industry who prefer to buy their own raw materials but who have not the equipment or specialised personnel to carry out such operations.

Enquiries are invited on any problem connected with the processing of medicinal plant raw materials.



Established 1846

WILLIAM RANSOM & SON LTD.

Manufacturing Chemists and Medicinal Plant Growers for over a Century

HITCHIN HERTS

22,000,000 press advertisements appearing every week

ASPRO'S "What's-My-Line?" heard weekly by millions of Radio Luxembourg listeners

The ASPRO "Women's News" delivered to over a million homes

ASPRO films shown in 3,000 cinemas

Spearheads of this year's biggest-ever 'ASPRO' campaign



Display will turn this great 1955 demand* for 'ASPRO' into more sales for you—which means more profit for you—and more customers, too, who stay to buy other lines as well.

* Over 7,000,000 tablets a day.

All this is working for YOU

An 'ASPRO' showbox on your counter—an 'ASPRO' wire unit on your shelf, link you directly with this great selling drive. All your 'ASPRO' users will buy from you.



Your counter show PLUS the great 'ASPRO' campaign will get you more PROFITS

TRESS Sales are mounting-week by week...

STOCK IT...
DISPLAY IT...
SEE HOW IT SELLS!



TRESS

The new kind of wave-set that's leading the field.

TRILL

The new brush-on hair beautifier for dry and broken hair.

COLORAL
HAIR COLOUR RINSE

GOLDEN LTD · *Now at* 7 GROSVENOR ST · LONDON W1 · HYDe Park 1671

fine chemicals and drugs

Adrenaline, Benzocaine, Carmine,
Diastase, Pancreatin, Papain,
Papaverine, Pepsin, Phenazone,
Piperazine, Procaine, Saffron, etc.

essential oils

Aniseed, Bay, Cajuput, Juniper,
Peppermint, etc.

dega brand specialities

Terpeneless Oils
Perfume Concentrates

DEGA BRAND

CHAS. ZIMMERMANN & Co. Ltd.

DEGA WORKS, WALMGATE ROAD, PERIVALE, GREENFORD, MIDDX.

TELEPHONE: PERIVALE 9121 (4 lines) Telegrams: Acidolan, Greenford

NEW

INECTO

Colour Crème

ADVERTISED ON
A GRAND SCALE

- ★ Easily and quickly applied in one application
- ★ Conditions as it tints, leaving the hair silky soft
- ★ Absolutely permanent and indetectable
- ★ Does not affect permanent waving
- ★ Created in the 18 world-famous standard Inecto shades
- ★ Attractive pack with picture directions for use

From your usual wholesaler
Price 3/4 complete plus P.T. retailing at 7/6



NEW

INECTO HOUSE, 27 DOVER ST., LONDON W.1
HYDE PARK 7541 (12 lines)

TOWNSEND'S
"*Daintee*"
Karriers

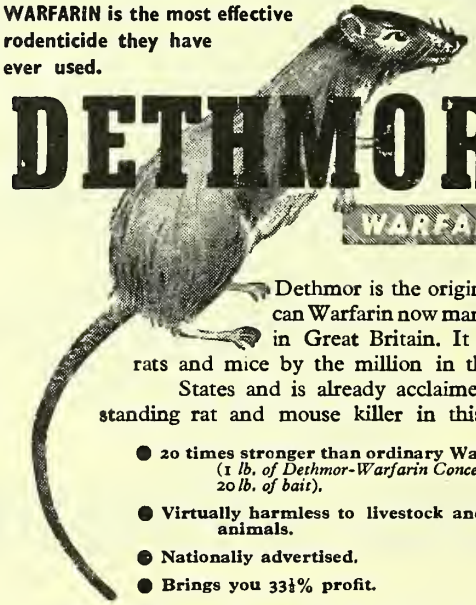
MAKE ALL THE DIFFERENCE
AT THE **TOILET COUNTER**

Samples with pleasure

James Townsend
AND SONS LIMITED
SPECIALIST CHEMISTS' PRINTERS
P.O. BOX No. 12
2, LITTLE QUEEN STREET, EXETER

Proof brings PROFIT

Thousands of farmers, poultry keepers, veterinary surgeons are now convinced by practical experience that DETHMOR-WARFARIN is the most effective rodenticide they have ever used.



DETHMOR
WARFARIN

Dethmor is the original American Warfarin now manufactured in Great Britain. It has killed rats and mice by the million in the United States and is already acclaimed an outstanding rat and mouse killer in this country.

- **20 times stronger than ordinary Warfarin bait** (*1 lb. of Dethmor-Warfarin Concentrate makes 20 lb. of bait*).
- **Virtually harmless to livestock and domestic animals.**
- **Nationaliy advertised.**
- **Brings you 33⅓% profit.**

Retail prices : **Tins: ¼ lb. 4/-, 1 lb. 13/6, 7 lb. 73/6**
from your wholesaler or direct from
C. F. GERHARDT LTD., 5 Fenchurch St., London, E.C.3

antipeol *products of proved efficiency*

MBL

Their success is due to the incorporation into a proved healing ointment base, of the anti-virus filtrates of the microbes common to most cutaneous, naso-pharyngeal and ocular complaints.

ANTIPEOL
CUTANEOUS OINTMENT

● ***Indications :***
Immediate efficacy in the treatment of BURNS and SCALDS. Invariably averts surgical intervention in the case of BOILS, whilst ABSCESSES, ECZEMA, CARBUNCLES, VARICOSE ULCERS, HAEMORRHOIDS and certain types of DERMATITIS are equally responsive.

RHINO-ANTIPEOL
PROPHYLACTIC NASAL CREAM

● ***Indications :***
ASTHMA, BRONCHITIS, CATARRH, CORYZA, RHINITIS and many other infections of the naso-pharynx.

OPHTHALMO-ANTIPEOL
THERAPEUTIC OPHTHALMIC OINTMENT

● ***Indications :***
BLEPHARITIS, CONJUNCTIVITIS, DACRIOCYSTITIS, KERATITIS and other inflammatory conditions of the eye.

AMONG the Medical and Nursing Profession and The First Aid Associations, the ANTIPEOL preparations enjoy a continued and growing popularity. ANTIPEOL Cutaneous Vaccine OINTMENT and its associated products RHINO-ANTIPEOL and OPHTHALMO-ANTIPEOL are highly regarded as **simple** but **effective** remedies against even the more virulent forms of skin, nose and eye infections. Wise chemists have been, and are still participating, in the steady sales increases over the years.

MEDICO-BIOLOGICAL LABORATORIES LTD.

CARGREEN ROAD, SOUTH NORWOOD
LONDON S.E.25

Guerlain



Established PARIS — 1828

Announce that their
PERFUMES, TOILET PREPARATIONS
AND BEAUTY PRODUCTS
are being more widely advertised in this country than ever before

★

Make
your enquiries direct to :

Guerlain Ltd · Aintree Road · Perivale · Greenford · Middlesex

A New M.M.P. Product

NOCTYNOL
NON-BARBITURATE TABLETS

EFFECTIVE NON-BARBITURATE SEDATION

★ Each tablet contains :

Mephenesin	200 mg.
Carbromal	200 mg.
Bromvaletone	70 mg.
Ascorbic Acid	30 mg.

Prescribable an Form E.C.10.

Literature gladly forwarded an request.

Issued only in tax-free dispensing packs of 50 tablets.

Trade price 72/- per doz.

Containing :

MEPHENESIN, which, by diminishing reflex hyperexcitability, relieving nervous tension and anxiety, and promoting muscular relaxation, not only induces the composure essential to the onset of sleep, but also ensures that the sleep is restful and refreshing.

CARBROMAL and BROMVALETONE which, by synergism, act as effective hypnotics and quickly transform the mephenesin-induced sedation to hypnosis. Unlike the barbiturates, carbromal and bromvaletone are non-toxic and non-cumulative, and as elimination is comparatively rapid, they rarely give rise to 'hangover' and depression.

In smaller doses, NOCTYNOL Tablets act as a non-depressant calmative eminently suitable for daytime sedation.

MOORE MEDICINAL PRODUCTS LTD.
1, QUEEN'S TERRACE, ABERDEEN • 64, GLOUCESTER PLACE, LONDON, W.1.

greater

greater

The Quality is...

greater



Made and designed by experts, Suba-Seal hot water bottles are in many sizes and shapes for a variety of purposes ranging from sick room needs to children's novelty shapes and streamlined shapes for adults. Stock up now on a full range.

The Suba-Seal range of hot water bottles is in a new price list, some lines of which are unavoidably priced slightly higher. Our consistent policy of "highest quality always" compels the use of top grade rubber which has been most affected by recent price increases in the world market.

...in the Original, Genuine, Patented

Suba-Seal

HOT WATER BOTTLES

with the closure that safely seals by suction

Revised PRICE LIST!

(Operative from March 1st, 1955)

HOT WATER BOTTLES—SUBA-SEAL

Standard — with/without handle, Large Nursery Rhyme	7/6
Giant	11/6
Streamline	9/6
Streamline Junior	6/11
Streamline Cot	4/11
Cot	4/6
Suba Comet	8/6

CHILDREN'S SHAPES—

Bear Cub, Dog Toby, Doll ...	7/6
Father Christmas, Father Bear, Speed Boat, Motor Car	8/11

HOT WATER BOTTLES—SUBA-MAID

Suba-Maid—With Handle ...	6/6

HOT WATER BOTTLES—SCREW TYPE

Pennant Standard Size—With Handle	7/6

P.A.T.A.

SUBA-SEAL

Write to

WILLIAM FREEMAN & COMPANY LIMITED

SUBA-SEAL WORKS, BARNSLEY, YORKS

'Phone: 4081 'Grams: "Suba-Seal, Barnsley"

What people think of Flextron

Dear Sirs, *2.2.54*

You may be interested to learn of my experience with one of your "Flextron" Tooth Brushes—in my opinion it is worthy of recording.

I purchased this brush (Hard bristles) in mid-June last year, after reading your advertisements, and only now after eight months continual use—4 times daily—is it reaching the end of its life. I think the poor old chap has more than earned its retirement, as the bristles are somewhat flattened, but during all this time not a single one has come out. To me this is positively astonishing, as previously I have tried —, —, your earlier brushes, and other makes, and in all cases they have been unusable after two months.*

After this experience there will only be one Tooth Brush for me in the future—a "Flextron," and if my next gives me half the service of the one named, I shall be delighted.

I thought you might be glad to read of the success of your new venture, and if you care to use extracts from this letter for advertisement purposes, you may do so provided my name and address are deleted.

**The writer mentions two well-known brands*

IN LESS THAN A YEAR— SECOND IN THE MARKET!

We introduced Wisdom Flextron toothbrushes some two years ago, and within a year Flextron sales were running higher than those of all other brands except one.

There is little doubt that this year sales are still going to go on increasing. And remember, when you sell Flextron not only do your customers get a better brush, but you make a better profit.



Be wise— sell Wisdom REGD.

The quickest-selling toothbrush

MADE BY ADDIS LIMITED, BRUSHWORKS, HERTFORD



RED CARNATION BRAND

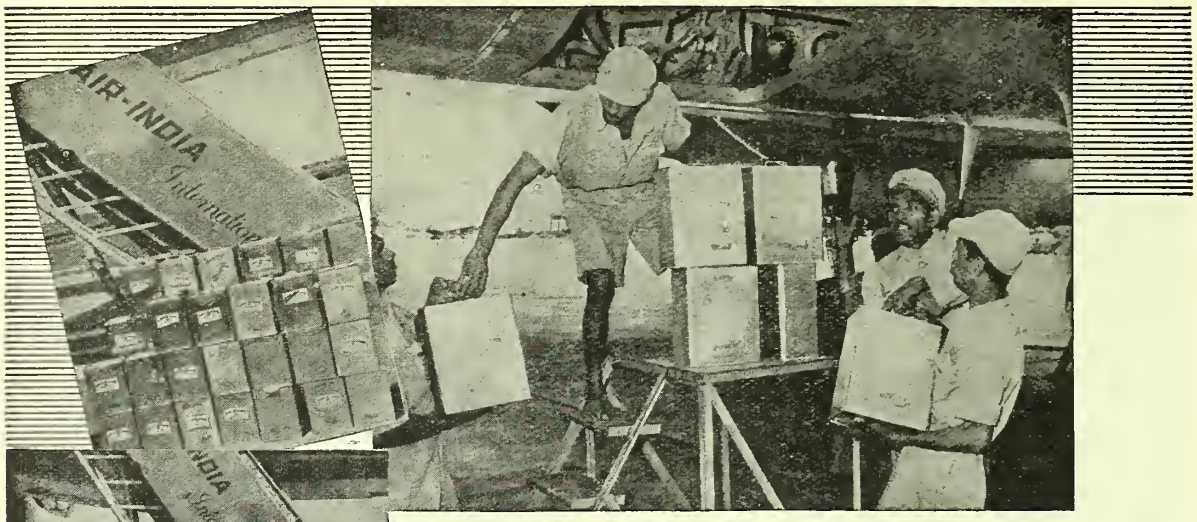
POWDERED

Gum Tragacanth



Be consistent about the Gum Tragacanth you use—insist on Red Carnation Brand every time, the powdered Gum Tragacanth with the *stable* characteristics. Red Carnation Brand is Gum Tragacanth in its finest form—available in standardised grades that cover every pharmaceutical requirement. It is scientifically processed to ensure stabilised viscosity, colour and fineness of powder and packed in airtight tins to preserve freshness. Every time you re-order, you receive *fresh* Gum Tragacanth of the same quality and with the same characteristics.

WHOLESALE AGENTS FOR SMALL PACKS (4 oz., 8 oz. and 16 oz. tins)
SANGERS LTD · MAY, ROBERTS & COMPANY, LTD · FRANCIS NEWBERY & SONS, LTD.
KIMPTON BROS. LTD. (*Established* 1882), 110 FENCHURCH ST., LONDON, E.C.3 · ROYAL 5544 (5 LINES)

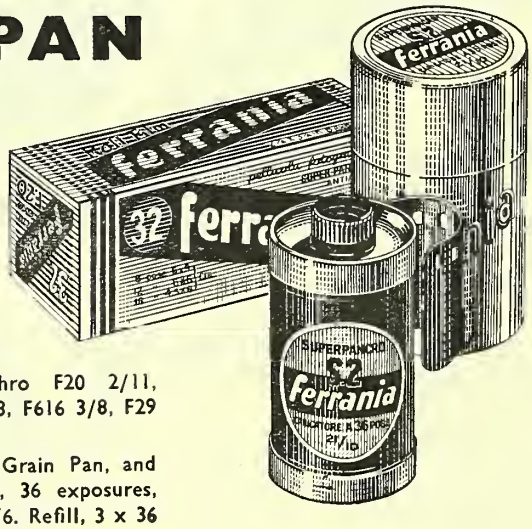


Mysore Government Sandalwood Oil consignment being loaded at Bombay Port for transhipment to London Stock of the Trade Agent, per Air India International planes maintaining a 24 hour service between India and U.K.

MYSORE
Sandalwood Oil

For further information apply to: TRADE AGENT FOR MYSORE
9 Clifford Street, London, W.1

ferrania
SUPERPAN FILMS
for speedy sales



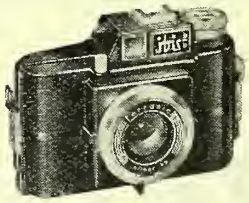
ROLL FILMS. Superpanchro F20 2/11, F620 2/11, F27 2/7, F16 3/8, F616 3/8, F29 2/11.

35 mm. FILMS. P.3 Fine Grain Pan, and S.2 Superpanchro cassettes, 36 exposures, 8/9. Refill, 36 exposures, 4/6. Refill, 3 x 36 exposures 12/1. Refill, 10 x 36 exposures, 36/11.

NEVILLE BROWN & CO., LTD.
77 NEWMAN STREET · LONDON · W.1 Telephone: LANgham 7161 (10 lines)

DISTRIBUTED by NEBRO

ferrania
CAMERAS



IBIS 27 ... £3 15 0
IBIS 6 x 6 ... £4 18 6



ELIOFLEX ... £11 18 6



When your advice is sought.....

for an efficient dentifrice.

In consistency, flavour and cleansing property, Phillips' Toothpaste meets all the needs of a first-class dentifrice. It can confidently be recommended to customers requiring a product of proved efficacy in keeping the teeth scrupulously clean and to bring out their natural sparkle and beauty.

Phillips' Toothpaste possesses an advantage which may be claimed by no other dentifrice, it incorporates 'Milk of Magnesia' which neutralizes on contact the mouth acids which are a predisposing cause of dental decay and gum irritation.

Phillips' DENTAL MAGNESIA REGD. Toothpaste

The other Phillips' Proven Products are:—

'Milk of Magnesia' REGD.

Of unsurpassed efficacy in the treatment of a wide variety of conditions associated with gastric acid disturbances.

'Mil-Par' REGD.

A genuinely mild evacuant ideally suited for administration to young infants, the enfeebled, sick or elderly.

'Milk of Magnesia' Tablets REGD.

Particularly valuable to the chronic or casual sufferer from dyspepsia and acid indigestion. Pleasantly mint flavoured.

'California Syrup of Figs' REGD.

Compounded from the natural extracts of senna and figs. A gentle yet efficacious laxative for family use.

THE CHAS. H. PHILLIPS CHEMICAL CO. LTD., 179 ACTON VALE, LONDON, W.3

LOVELIEST HANDS OF THE YEAR!

Winner of Nation-wide contest uses "Hinds"

Panel of celebrities awards first prize in "Hands of the Year" Contest to Miss Anne Holland-Hughes, of Sale, Manchester.

Beautiful hands, cared-for with "Hinds", won a handsome cash prize and a Television appearance for attractive Anne Holland-Hughes, of Sale. In a recent London contest, a panel of distinguished judges picked her hands as the loveliest "Hands of the Year", from those of fourteen finalists, from all parts of Britain.

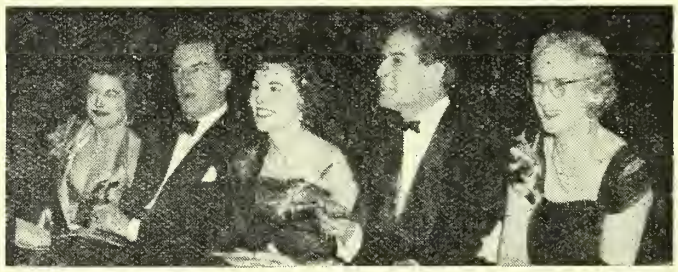
CHEMISTS!

Cash-in on this *valuable free publicity* for "Hinds". When your customers come in for hand-cream, tell them about this big national contest and *sell* them all the "Hinds" you can! Arrange special displays of "Hinds" on your counters, in your windows and increase your hand cream profits.



THE WINNING HANDS! *Slender, white, smooth, and beautifully cared-for, with "Hinds". Anne Holland-Hughes displays them proudly —with a big, winning smile!*

DISTINGUISHED PANEL OF JUDGES *includes Avis Scott, T.V. celebrity; Hugh Sinclair, well-known London actor; Josephine Douglas, T.V. star; Baron, society photographer; Kate Don, T.V. beauty expert and leading London consultant on skin care.*



Hinds Honey and almond cream WITH LANOLIN

ALWAYS THE WINNER, WHEN IT COMES TO HAND-CARE!

The CHEMIST AND DRUGGIST
CLASSIFIED ADVERTISEMENTS
Supplement
28 ESSEX STREET, STRAND, LONDON, W.C.2

ORRIDGE & COMPANY 184 STRAND, W.C.2
Tel.: TEMple Bar 9212/3 & 6340
CHEMIST BUSINESS TRANSFER AGENTS AND VALUERS WHOLESALE AND RETAIL
BRANCHES: BIRMINGHAM · SOUTHAMPTON · LIVERPOOL · SHEFFIELD · CARDIFF
Irish Representative: Mr. J. A. Bassett, Ph.C., 57 Great Victoria Street, Belfast, Northern Ireland. *Tel: Belfast 27078*

PREMISES FOR SALE

17/6 for 36 words (min.) then 4d. per word. Box 2/-

LONDON, S.W.6. Vacant freehold shop premises for sale. Ideally suitable for dispensing chemist. Situated main road. Buses stop outside. Good living accommodation. Price £2,850. Box C 2351.

APPOINTMENTS

18/- per half-inch (min.) and pro rata. Box 2/-

THE PHARMACEUTICAL SOCIETY OF IRELAND
Pharmaceutical Chemist

The Pharmaceutical Society of Ireland require the services of a pharmaceutical Chemist who must, if required, be prepared to discharge the duties of an Inspector. Applications should be sent not later than April 8 to The Registrar, Shrewsbury Road, Dublin. C 8293

PHARMACIST (Male or Female)
required by
KENYA GOVERNMENT
MEDICAL DEPARTMENT
on probation for pensionable employment. Salary scale (including inducement pay and present temporary allowance of 10 per cent.) (male) £772 rising to £1,498 (female) £594 rising to £1,201. Commencing salary according to experience. Outfit allowance £30. Free passages. Liberal leave on full salary. Tours up to 45 months each initially. Separation allowance payable. N.H.S. superannuation rights can be preserved in approved cases. Candidates must be M.P.S. of Great Britain. Write to the Crown Agents, 4 Millbank, London, S.W.1. State age, name in block letters, full qualifications and experience and quote M3A/34779/CD. C 8299

BOSTON COMBINED HOSPITAL (319 Beds)
Pharmacist

required. Modern department. Nationally negotiated conditions and salary, at present £450 x £25 (5)—£575.
Apply, stating age, qualifications, experience (if any) and names of two referees, to the Hospital Secretary, Boston General Hospital, Boston, Lincs.
Locum welcomed for interim period, salary £14 14s. per week. C 8287

BOW GROUP HOSPITAL MANAGEMENT COMMITTEE, POPLAR HOSPITAL
Locum Chief Pharmacist

required for period May 2-7, 1955 (inclusive). Salary £17 17s. per week. Apply to Hospital Secretary, Poplar Hospital, East India Dock Road, E.14. (East 1876.) C 8303

COUNTY HOSPITAL, GRIFFITHSTOWN, MON. (253 beds)
Dispenser

required, Apothecaries' Hall or equivalent. Salary under 22 according to age, rising from £195 at 18 to £350 at 22, 22 or over, £350 x £15 (1) x £10 (1) x £15 (5) to £450. Write stating age, experience and two referees to T. A. Jones, Group Secretary, 64 Cardiff Road, Newport, Mon. C 8280

HILL END HOSPITAL, ST. ALBANS, HERTS
Locum Tenens Chief Pharmacist

non-resident, required at the above hospital, half-an-hour's train journey from central London, from July 18-September 3, 1955. Salary £15 15s. per week. Applications to Hospital Secretary. C 8261

MANSFIELD HOSPITAL MANAGEMENT COMMITTEE
Pharmacist

Applications are invited for the post of Pharmacist with the above Management Committee. The main Pharmaceutical Department in the Group is situated at King's Mill Hospital, Sutton-in-Ashfield, with a subsidiary Pharmacy at the Mansfield and District General Hospital. Salary—£450 by £25 to £575.
National Health Service Whitley Council conditions. Applications stating age, qualifications, together with the names of two referees to be forwarded as soon as possible to the Group Secretary, Mansfield Hospital Management Committee, Crow Hill Drive, Mansfield. C 209

NAPSBURY MENTAL HOSPITAL, nr. ST. ALBANS (over 2,000 beds)
Dispensing Assistant

required at the above hospital. The Hospital is pleasantly situated and is only 18-miles from London. There are two other dispensers in the department. Salary according to Whitley Council scale, age 20, £240 p.a., 21, £275 p.a., 22 or over, £335, rising to £435 p.a. Preference will be given to holders of the Certificate of the Society of Apothecaries of London, or equivalent, for which an additional payment of £15 per annum is payable. Single accommodation can be provided at a reasonable charge.
Written applications with full details of age, experience, qualifications, etc., with names and addresses of two persons to whom reference may be made, to be sent to the Group Secretary. C 8273

NEASDEN HOSPITAL, BRENTFIELD ROAD, N.W.10
Assistant in Dispensing

Whole-time, between ages 17/20, or alternatively part-time. Whitley Council salary scale. Apply to Physician Superintendent. C 8283

NORTH WEST DURHAM HOSPITAL MANAGEMENT COMMITTEE, SHOTLEY BRIDGE GENERAL HOSPITAL, co. DURHAM
Locum Tenens Pharmacist
(Resident or Non-resident)

Applications are invited for the position of Locum Tenens Pharmacist. Good salary offered which could be discussed at interview.
Apply, stating age, qualifications and experience to the Secretary, Shotley Bridge General Hospital, Shotley Bridge, co. Durham. C 8298

NORTH MIDDLESEX HOSPITAL, EDMONTON, N.18
Locum Pharmacist

required June 6-October 1, 1955 (approx.). Salary £15 15s. per week. Applications, stating age, qualifications, experience, with copies of testimonials and/or names of referees, to the Group Secretary immediately. C 8284

NORTH-WEST DURHAM HOSPITAL MANAGEMENT COMMITTEE, SHOTLEY BRIDGE GENERAL HOSPITAL, co. DURHAM
Pharmacist

Applications are invited from registered pharmacists for the above appointment. Department equipped with facilities for manufacturing and sterile work. Salary £450 x £25 to £575 if aged 23 or over. Whitley Council conditions.
Applications giving details of age, qualifications, and experience, together with names of two referees to Group Secretary, Shotley Bridge General Hospital, Shotley Bridge, Consett, co. Durham, immediately. C 8262

PRESTWICH (MENTAL) HOSPITAL
Senior Pharmacist

required. Applications should be sent to the Secretary, Prestwich Hospital, Prestwich, near Manchester, not later than Saturday, April 9, 1955. C 8253

SHREWSBURY HOSPITAL GROUP, ROYAL SALOP INFIRMARY, SHREWSBURY
Assistant in Dispensing

Apothecaries' Hall Certificate. Sessional duties at other group hospitals.
Whitley Salary Scales and Conditions.
Applications to the undersigned.
J. P. MALLETT,
Group Secretary.
C 8296

ST. PETER'S HOSPITAL, CHERTSEY, SURREY (404 beds)
Pharmacist

required. Salary and conditions of service in accordance with Whitley Scale. Applications stating age, experience, with the names of two referees to the Hospital Secretary. C 8271

WEST DORSET GROUP HOSPITAL MANAGEMENT COMMITTEE
Senior Pharmacist

(male or female) required.
Salary and conditions of service in accordance with Whitley Council recommendations. Scale: £525 x £25—£625 p.a. The successful candidate will be required to assist in the pharmaceutical departments at both Weymouth and District Hospital, Weymouth, and Dorset County Hospital, Dorchester.
Applications giving details of age, qualifications and experience, together with names of two referees, to Group Secretary, West Dorset Group Hospital Management Committee, Damers Road, Dorchester, immediately. C 8272

THE HOSPITAL FOR SICK CHILDREN, GREAT ORMOND STREET, LONDON, W.C.1
Deputy Chief Pharmacist

Applications are invited for the post of Deputy Chief Pharmacist. Salary scale £575 x £25—£675 per annum plus London Weighting, plus £25 qualification allowance when applicable. Further particulars and form of application, which must be returned by April 18, 1955, are obtainable from the Secretary.
H. F. RUTHERFORD,
House Governor and Secretary.
C 8276

'UNISEC' *from the Single Unit to the Complete Pharmacy*
WRITE FOR YOUR COPY OF THE STANDARD REFERENCE OF PHARMACY FITTING
MYERS of OLD ST.
133/5 & 141/7 OLD STREET, LONDON, E.C.1

EST. 1883 BIS. 1941
C. Ribbands & Sons
The Complete Pharmacy Fitters
Shopfronts and Interiors
3 RAVEY ST., BISHOPSGATE, LONDON. E.C.2.

SITUATIONS OPEN

8/6 for 36 words (min.) then 3d. per word. Box 2/-

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

RETAIL (HOME)

AN IMPORTANT pharmaceutical organisation, with branches in all areas of London and Suburbs, requires the services of well-educated ladies and gentlemen, ages 17 to 21 years, to train as dispensers in modern up-to-date pharmacies. Good salary paid whilst training, and promotion to highly paid posts at the successful completion of same. Apply, in first instance, giving details of education, etc., to Box C 2355.

ARMY & NAVY STORES require a young man with some knowledge of drugs as stock keeper in their dispensary. Hours 8.45 a.m. to 5.30 p.m. Sat. 1 p.m. Apply Staff Manager, 12 Artillery Row, S.W.1. C 8302

DONCASTER CO-OPERATIVE CHEMISTS, LTD., require the services of Pharmacists (male or female) as branch managers. Living accommodation with one post. Minimum rate £780 per annum, 44-hour week. Applications and usual particulars to Superintendent Chemist, St. Sepulchre Gate, Doncaster. C 199

EXPERIENCED young lady assistant required for busy family-type business. Knowledge of dispensing an advantage. Must be good stockkeeper. Good wages, holiday this year. Apply, Pembro, 69 Loughborough Road, Brixton, S.W.9. Telephone: Brixton 1475. C 2339

EXPERIENCED UNQUALIFIED assistant required, lady or gentleman, mainly for dispensing, some counter work when necessary. Permanent post. Apply with full particulars to E. Vowles, 12 Sadler Street, Wells, Somerset. C 2309

ILFORD. Excellent opportunity for energetic pharmacist to manage busy branch in pleasant area. Well-fitted shop. Adequate assistance. Up-to-date dispensary. Progressive salary with monthly bonus and rota duty payments. Modern flat available near branch. Permanency. Apply with full details stating when available for interview to Box C 2325.

LADY DISPENSING ASSISTANT required for good-class family business in market town. Good working conditions, rest room and full staff. Please give all details of age, previous experience, and approximate salary required, together with type of accommodation required, to Wilfrid E. Dale, Ltd., 27 Market Place, Andover, Hants. C 2356

LONDON, N.22. Recently qualified pharmacist (either sex) to take charge dispensary. (Straight-forward N.H.S.). Good salary and bonus, large modern pharmacy. Congenial surroundings. Apply J. S. Jenkin, Ltd., 352 High Road, Wood Green, N.22. Telephone Bow 1729. C 2359

MANSFIELD, NOTTS (near). Pharmacist required to assist proprietor. Commencing salary £800 p.a., three weeks' holiday p.a.; excellent supporting staff and congenial conditions. Permanency with real prospects for suitable applicant. Full particulars to J. Spaanderman, Pharmaceutical Chemist, Huthwaite, Notts. C 2288

NORTH KENSINGTON. Applications are invited from experienced pharmacists for the position of Manager, with full responsibilities; the post carries with it the free use of an attractive four-roomed flat. All replies will be treated in strict confidence. Please write initially stating brief details of career to date, to Box C 8266.

NORTH LONDON SUBURB. Pharmacist required to manage spacious well-fitted branch with substantial counter trade. Good opportunity for ambitious man to earn top salary together with monthly bonus and rota duty payments. Permanency with superannuation benefits, etc. Apply with full details stating when available for interview to Box C 2326.

TEDDINGTON. Excellent opportunity for pharmacist to manage family-type business in pleasant riverside district. Permanency with superannuation benefits. Good salary and commission. Nicely fitted shop with adequate supporting staff. Apply with full details, stating when available for interview to Box C 2324.

LOCUMS WANTED

IMMEDIATELY. Locum or permanency. Pharmacist required in middle-class retail and dispensing business in S.W. London. Give details of experience and salary expected. Box C 2343.

LOCUM PHARMACISTS REQUIRED for London and Suburban areas, long or short periods. Permanency at conclusion of tour if desired. Salary and expenses basis. Apply to H. Warburton, M.P.S., Chief Pharmacist, London Co-operative Chemists, Ltd., Grange Road, Leyton, E.10. C 2327

RETAIL (OVERSEAS)

QUALIFIED CHEMIST (male or female), age 25 to 30 required for retail pharmacy, Salisbury, Southern Rhodesia, passage paid. Three-year contract. Salary first year £80, second year £90 and third year £100 per month. Apply stating apprenticeship served and experience. Interview can be arranged in England. Box C 2275.

WHOLESALE

ADVERTISING EXECUTIVE

Parke, Davis & Company, Limited, require a Pharmacist for an interesting and progressive post as a senior executive in their Advertising Department. He will be involved in all aspects of Advertising and Sales Promotion but, in particular, his duties will include the compilation and presentation of Medical Literature from Technical information provided. He should have therefore a distinct flair for writing. Generous pension plan, five-day week, staff restaurant. Write in the first instance giving full particulars of experience and present salary, to Personnel Manager, Parke, Davis & Company, Limited, Staines Road, Hounslow, Middlesex. C 8286

ALLEN & HANBURYS, LTD. have vacancies for representatives in the areas of Newcastle, Wolverhampton and the West Country. Preference will be given to pharmacists but consideration will be given to those who may have had suitable experience or possess other suitable qualifications. They should also possess a clean driving licence. Apply, in writing, giving details of age, qualifications and experience to Personnel Manager, Allen & Hanburys, Ltd., Bethnal Green, E.2. C 8295

AN EXPERIENCED REPRESENTATIVE required by nationally known house of perfumery manufacturers for a territory comprising Kent, Surrey, Sussex, Berks, Oxon, South London and the West End. Applicants should have an established connection amongst retail chemists, departmental stores and co-operative societies on the ground indicated. Remuneration is by way of salary, expenses and commission. Write in confidence with fullest details to Box C 8289.

AN OPPORTUNITY occurs for a young male pharmacist to join the editorial staff of THE CHEMIST AND DRUGGIST. The position entails sifting information on all aspects of pharmaceutical affairs and preparing it for publication: a service indispensable to the profession. Experience of the work is not required, but an inquiring mind and some gift for writing are essential. Salary is according to qualifications and experience. Applications should be sent to The Editor, THE CHEMIST AND DRUGGIST, 28 Essex Street, London, W.C.2. C 8294

ASSISTANT TO HEAD of proprietaries department, wholesale chemists. Intimate knowledge of present-day ethicals and patent medicines necessary and ability to control staff. Progressive post. Bleasdale, Ltd., York. C 8291

APPLICATIONS ARE INVITED for Sales Representative not over 40 years of age, possessing good personality, above-average ability and enthusiasm. The territories in which immediate appointments will be made are: (1) Notts, Leics, Derbys; (2) E. London and Essex; (3) Eastern Counties. Applicants should be car owners and reside within the territory. Connection with retail chemists and co-ops an advantage. Positions offer excellent opportunities for personal advancement together with generous salary, car allowance and other out-of-pocket expenses. Apply, in confidence, giving full details of age and experience to Sales Manager, Box C 8288.

ASSISTANT EXPORT MANAGER for important ethical pharmaceutical company. Should be between 28-40 years with fluent French and/or German. Pharmaceutical or medical background and experience as medical representative desirable. Opportunity for travel abroad. Scope for intelligence and initiative. Apply with full details and salary required to Personnel Manager. Box C 8275.

COATING AND COMPRESSING FOREMAN required by old-established rapidly expanding company in South Coast resort. Opportunity of advancement, pleasant working conditions, five-day week, canteen, etc. Substantial contribution towards removal expenses. Applicants should give details of age, experience, and wages required. Box C 8220.

DEVELOPMENT PHARMACIST. Pfizer, Ltd., have a vacancy at their Folkestone factory for a pharmacist to work on the formulation and development of ethical pharmaceutical products. Previous experience in this type of work essential. Attractive salary and excellent prospects. Applications giving full details of qualifications and experience to be addressed to the Production Manager, Pfizer, Ltd., Sandgate Road, Folkestone, Kent. C 2350

ENERGETIC WAREHOUSE MANAGER, experienced in chemists' sundries' lines, required by manufacturing company, Home counties. Salary according to experience. Box C 8270.

EVANS MEDICAL SUPPLIES, LTD., Pharmacist writer. A vacancy exists in the medical information department for a widely read and knowledgeable pharmacist, skilled in abstracting from medical journals, and in writing good, plain English. Previous experience in journalistic abstracting or copywriting will be an advantage. An important part of the work will consist in compiling medical and pharmaceutical literature and preparing it for publication; this will be done in collaboration with other members of the medical and scientific staff. Remuneration will be related to qualifications, ability and experience. Pension scheme. Write, giving details of age, education, qualifications, and experience and enclosing, if possible, specimens of previous work (which will be returned) to Pharmaceutical Development Director, Evans Medical Supplies, Ltd., Speke, Liverpool, 19. C 8255

EXPERIENCED stock-keeper. Also packer required for chemists' sundries. Apply George Spencer & Co., 1B/2 Kynance Place, Gloucester Road, London, S.W.7. C 2349

EXPERIENCED REPRESENTATIVE required for Notts/Derbys area by well-known pharmaceutical supplies house. Car provided; salary, expenses and commission. Full details on first application to Box C 8301.

JOHNSON & JOHNSON (Great Britain), LTD. require a first-class representative to call on retail and wholesale chemists in the North Lancashire area and Westmorland. Preference will be given to those with connections in the area. The appointment is permanent and pensionable. A motor-car is provided, and remuneration is by salary and commission with liberal expenses. Applications, which will be treated in confidence, should give full details of past experience and be addressed to: Pharmaceutical Sales Manager, Johnson & Johnson (Gt. Britain), Ltd., Slough, Bucks. C 8297

LABORATORY ASSISTANT, female, required, some experience of analytical and/or bacteriological control work preferable. Matric. or Inter. standard desirable, but not essential. Roussel Laboratories, Ltd., 847 Harrow Road, N.W.10. C 8292

BAYER PRODUCTS LIMITED

require a young pharmacist (preferably F.P.S.) for an executive position with excellent prospects in their head office at Kingston-on-Thames. The post offers unique openings for a candidate who wishes to make a career in the pharmaceutical industry and will embrace sales, product development and technical correspondence. Every opportunity will be given to the successful candidate. Applications in confidence to the Sales Director, Neville House, Eden Street, Kingston-on-Thames. C 8248

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RIKER

Riker Laboratories Limited invite applications from pharmacists for the post of Medical Representative for East Yorkshire.

Previous experience in medical representation is not necessary as full training will be given. Remuneration is by salary, bonus, expenses and a new car will be provided. There is a company pension scheme in operation.

Apply in writing to the Managing Director, Morley Street, Loughborough. C 8238

Situations Open—Continued

MANUFACTURERS and distributors of toilet and household products are de-centralising the control of their sales force. They would like to meet a number of first-class representatives with considerable experience with a view to their eventually being appointed as area managers in the Midland and Home Counties. Applications may be made in all confidence to Box AC. 05883, Samson Clarks, 57/61 Mortimer Street, London, W.1. C 8277

MEDICAL REPRESENTATIVE

Clinical Products, Ltd., require a representative (car owner) to contact doctors, and chemists in the East London and Essex area. Write, giving full particulars, salary required, etc., to Managing Director, Clinical Products, Ltd., Richmond, Surrey. C 8300

MEDICAL REPRESENTATIVE required immediately by Lederle Laboratories in the following areas: (1) Glasgow; (2) Northamptonshire and Leicestershire. Applicants should be men of striking personality and initiative, should be 25-35 and have a pharmaceutical qualification or experience with an ethical house or detail work among doctors and hospitals. Congenial, well-paid post backed by outstanding products and first-class promotional material. Liberal expenses, company car supplied. Fullest details in writing to Sales Manager, Lederle Laboratories Division, Cyanamid Products, Ltd., Bush House, London, W.C.2. C 8260

MEDICAL REPRESENTATIVE required by ethical manufacturers for part of Yorkshire. Either pharmaceutical qualification or pharmaceutical/medical background necessary and previous representative experience is desirable though not essential. Good salary, fair expenses; excellent prospects for the right man who will be joining an expanding company. Car provided. Superannuation scheme. Applications in writing and in confidence stating salary expected to Box C 8240.

MEDICAL REPRESENTATIVES. Sandoz Products, Ltd., invite applications from young men for the immediate appointment of medical representatives in the following areas: (a) Cambridgeshire, Huntingdonshire, Norfolk and Suffolk; (b) South Wales, including South Welsh counties and Herefordshire, (c) Oxfordshire, Berkshire, Buckinghamshire and Northamptonshire, (d) Sheffield area, including Nottinghamshire, Leicestershire, and Lincolnshire. Attractive salary; superannuation scheme in operation. Thorough training given. Age not exceeding 32. Applicants should be pharmacists (preferably F.P.S.). Please send full details of age, education, qualifications and experience with photograph, to Staff Manager, Sandoz Products, Ltd., 134 Wigmore Street, London, W.1. C 8268

MEDICAL REPRESENTATIVES. Genatosan, Limited, a member of the Fison Group, require medical representatives to cover general practitioners, hospital medical officers, etc., in the following areas: (a) Birmingham, (b) South Yorkshire, (c) Northern Ireland. Applicants should preferably be pharmacists but persons with good technical background would be considered. There are well remunerated posts with incentives and good prospects for keen and energetic men possessing the ability and desire to make a success of this specialised work. Full personal details with summary of attainments and experience, also any preference for a particular territory, should be addressed to: The Personnel Officer, Genatosan, Limited, Loughborough, Leics. C 8252

PARKE, DAVIS & CO., LTD., invite applications from pharmacists for a junior executive position in their pharmaceutical manufacturing division. The position entails supervision of groups of process workers and offers an opportunity to gain wide experience in modern large-scale production methods. Good promotion prospects; previous manufacturing experience, while an advantage, is not essential. Five-day week. Staff restaurant. Generous pension plan. Write with full particulars to Personnel Manager, Staines Road, Hounslow, Middlesex. C 8285

PHARMACIST required for analytical and experimental work and compounding by pharmaceutical and perfumery house on South Coast. Excellent opportunity for an ambitious young man. Previous factory experience desirable but not essential. Apply giving age, details of previous employment, present salary. The Dubarry Perfumery Co., Ltd. (and The Standard Tablet Co., Ltd.), Hove, 4, Sussex. C 8251

PHARMACIST REQUIRED for managing drug sales department, old-established wholesale house, Lancashire. Five-day week, pension scheme. Applicants should give full details of experience, age, and salary required to Box C 8290.

REPRESENTATIVES REQUIRED by wholesale chemists' sundries firm on already established grounds in Manchester and South Wales areas. Apply: Heath Bros. & Sons, Ltd., 98/100 Chapel Street, Salford, 3, Lancs. C 211

ROCHE PRODUCTS, LIMITED, invite applications for posts of medical representatives. A pharmaceutical qualification or equivalent academic achievement desirable but not essential. Usual expenses and salary commensurate with experience. Contributory pension scheme in operation. Please send in confidence, full details of age, experience, etc., to the Secretary, Roche Products, Ltd., 15 Manchester Square, London, W.1. C 8259

TABLET COMPRESSORS required by old-established, rapidly expanding company in South Coast resort. Opportunity for advancement, pleasant working conditions, five-day week, canteen, etc. Substantial contribution towards removal expenses. Applicants should give details of age, experience, and wages required. Box C 8221.

THE CROOKES LABORATORIES LIMITED
Medical Representatives

Applications are invited for representatives to cover (a) Birmingham area, (b) Sheffield, Derbyshire, Nottinghamshire and Lincolnshire, and (c) Liverpool area. A pharmaceutical qualification or an adequate technical background is essential. Candidates should preferably be aged 25-40 and possess personality and initiative. Each appointment carries a progressive salary and an annual bonus/commission payment, directly associated with territorial results obtained, together with an adequate expense allowance. The positions are superannuated and only candidates with a keen desire to progress should apply, in writing, to the Sales Director, The Crookes Laboratories, Ltd., Gorst Road, Park Royal, N.W.10. C 8235

WELL-KNOWN toilet and industrial soap manufacturers urgently require representative for Home Counties, connection, chemists, stores, industrial, wholesale, etc., handed over. Remuneration by salary, commission and expenses. Car owner essential. Write fully details of experience. Box C 2318.

WHOLESALE (OVERSEAS)

A LEADING PHARMACEUTICAL HOUSE invites applications from suitably qualified persons to fill an important vacancy on the sales force of their Branch Office in Nairobi. The position will appeal to young single men with sound retail or hospital background. Representative experience in the ethical field will carry some measure of preference. Duties will consist of the promotion of the company's products to the medical profession, hospitals and trade, and will entail short tours within the territories. Full training will be given. Contributory pension scheme. Apply initially in writing giving full details of experience to Box C 8241.

MALAYA. Leading wholesale and retail pharmaceutical company wish to increase their qualified male staff. The position offers considerable scope for advancement. Commencing salary and allowances would be equal to £1,300 per annum, with annual increments. There is a contributory provident fund. First-class return passage paid by the company. For fuller details please apply to Managing Director, Dakin Brothers, Ltd., 42-50 Southwark Street, London, S.E.1. C 8281

PLANT MANAGER required for extraction plant in East Africa. Applicant should have chemical engineering knowledge and be capable of controlling European and Native labour. Responsible for plant installations and general maintenance. Must be conscientious and undertake control of plant process. Salary from £1,500 upwards according to experience. Home leave, pension and bonus scheme. Write Box "MR/49," c/o 95 Bishopsgate, E.C.2. C 208

SITUATIONS WANTED

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RETAIL (HOME)

UNQUALIFIED (50) desires change. Wide experience all branches; long experience as manager drug departments, and under cover. Wide photographic experience, including ciné. Position of responsibility desired. Accommodation essential. Box C 2361.

WHOLESALE

ACCOUNTANT, experienced, accepts part-time work one or two days weekly to one day a quarter as required. London area or near. Write BM/HGXY, London, W.C.1. C 2345

ENERGETIC YOUNG MAN (30), sound pharmaceutical background, seeks position as representative with progressive company (London area). Box C 2347.

EXPORT: Young man, 26, pharmaceuticals buyer for confirming house, previous sales experience, seeks export sales position chemicals/sundries. Salary £750. Box C 2358.

PHARMACIST desires production post with good pharmaceutical house. Area preferably, not essentially, adjacent Lincolnshire, viz., Yorkshire, East Midlands to Cambridgeshire. Box C 2360.

REPRESENTATIVE, South-east London and Kent, seeks situation with a reputable firm as driver/salesman (deliveries and sales), 15 years calling chemists and stores with the good will a definite asset for right firm. Box C 2357.

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UNQUALIFIED, age 50, desires change to wholesale. Experience essentially retail (managerial several years); four years war-time administrative office. Experience (progress and despatch). Complete knowledge retail viewpoint and difficulties. Pharmaceutical, photographic, veterinary, etc. Appointment desired where experience could be put to best use. Housing accommodation essential. Box C 2346.

AGENCIES

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M.A.A.—The badge of a good manufacturers' agent. Manufacturers requiring reputable agents are invited to communicate with the Secretary, The Manufacturers' Agents' Association of Great Britain & Ireland (Inc.), Bream's Buildings, E.C.4. Membership available to established agents only. Particulars supplied. C 4

WELL-KNOWN COMPANY, marketing nationally-advertised proprietary lines to chemists and best grocers, wishes to appoint an agent, or agents, for Lincolnshire and South East Yorkshire. Final area to be agreed by negotiation. Competitive field, but excellent opportunity for agent prepared to work consistently and intelligently. Box C 8282.

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NEW ZEALAND pharmacist returning to New Zealand seeks agencies for drugs, instruments, toiletries, proprietaries and lines allied to pharmacy including plant hormones and veterinary supplies. All enquiries welcomed. Box C 2231.

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SPAIN. Industrial expert and partner would accept representations of machinery and tools, as well as other materials. Box C 8250.

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ALL KINDS OF BOTTLES, JARS, SCREW CAPS, cartons, packaging materials and manufacturers' stocks of all kinds bought at fair price for spot cash. We are buyers of merchandise of EVERY DESCRIPTION. Clearance Stocks. Discontinued lines. Surplus and Redundant Stocks. Should you have anything for disposal, please send us samples and particulars. Reliance Trading Co., 13 New College Parade, Finchley Road, N.W.3. C 153

MEDICAL BOTTLES, tablet bottles, closures and all types of packaging materials purchased, no quantity too large. Samples and full details to Noel Davold & Co., 9 Laurence Pountney Lane, Cannon Street, E.C.4. Mansion House 3951-2. C 178

WE WILL PURCHASE for cash a complete stock, a redundant line, including finished or partly finished goods, packing raw materials, etc. No quantity too large. Our representative will call anywhere. Write or telephone:—Lawrence Edwards & Co., Ltd., 6/7 Wellington Close, Ledbury Road, London, W.11. Tel.: Bayswater 4020, 7692. C 140

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703180	ROYDIUM	Pocket wallets and pocket notecases, all made of leather or imitation leather, and vanity cases for women.
703181	ROYDIUM	Toilet sets, toilet utensils, trays, dishes and bowls, all included in Class 21.
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B712400	TALLENT	Ashtrays, cigarette cases, cigarette holders, cigarette boxes, tobacco jars and cigarette boxes incorporating musical boxes, none being of precious metal or coated therewith; and tobacco pipes, tobacco pouches and tobacco pipe racks.

C 8279

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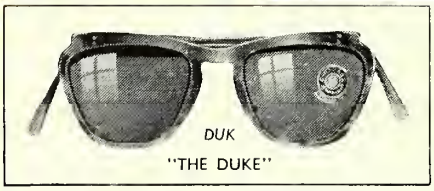
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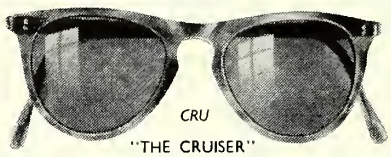
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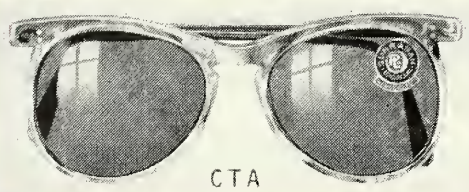
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